Westmont College Academic Catalog 2025-2026

Westmont College
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www.westmont.edu

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Academic Catalog 2025-2026
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This catalog accurately represents the academic programs, policies, and personal expectations of the college as of the date of publication. The College reserves the right to make changes of any nature in academic programs, calendar, and academic policy whenever these are deemed necessary or desirable. Therefore, this publication is not an irrevocable contract between the student and Westmont College.

Westmont College
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Santa Barbara, CA 93108-1089
805-565-6000
www.westmont.edu
registrar@westmont.edu

Academic Calendar 2025-2026

FALL 2025

ORIENTATION	AUGUST 27-31
CLASSES BEGIN	SEPTEMBER 1
FALL HOLIDAY	OCTOBER 13-14
THANKSGIVING HOLIDAY	NOVEMBER 26-28
LAST DAY OF CLASSES	DECEMBER 12
STUDY DAY	DECEMBER 15
FINAL EXAMS	DECEMBER 16-19

SPRING 2026

CLASSES BEGIN	JANUARY 12
MARTIN LUTHER KING HOLIDAY	JANUARY 19
PRESIDENTS' HOLIDAY	FEBRUARY 16-17
SPRING RECESS	MARCH 16 – 20
EASTER HOLIDAY	APRIL 3 - 6
LAST DAY OF CLASSES	APRIL 30
STUDY DAY	MAY 1
FINAL EXAMS	MAY 4 - 7
BACCALAUREATE	MAY 8
COMMENCEMENT	MAY 9

MAYTERM AND SUMMER 2026

CLASSES BEGIN	MAY 11
MEMORIAL DAY HOLIDAY	MAY 25
LAST DAY OF MAYTERM CLASSES	JUNE 12
JUNETEENTH	JUNE 19
LAST DAY OF SUMMER CLASSES	AUGUST 21

Rigorous Academics and Love for God by President Gayle D. Beebe

In 1937 Ruth Kerr had a burning desire to start a school that combined a deep love for God with rigorous academics. For our entire history, these twin planks for our institution have guided and sustained us.

As I think about the mission and aims of Westmont, three aspects of our philosophy of education come to mind: what happens to us, what happens inside us and what happens because of us.

The five components of our mission statement (liberal arts, Christian, undergraduate, residential and global) are especially compelling when considering what happens to us when we come to Westmont. This catalog includes a good description of these distinctive emphases.

One of our great challenges is the fact that so many cultural expressions have become shrill and absolutely destructive of human civilization. That's what makes the balance between a rigorous academic understanding of the faith and a deep love for God so important. We need warm-hearted, keen-minded graduates going into the world to make a redemptive impact on our world in ways that matter and sustain society.

The second part is what happens inside us. Being a part of a liberal arts college community gives us the opportunity to increase our intellectual understanding and begin to work out our own view of the world. We like to emphasize the importance of learning to think for ourselves while living for others. This context allows us to learn how to discipline and temper our own ambitions and drives, become more integrated emotionally, more psychologically prepared and more cognitively alert so our development of critical thinking skills and independent thought take a great leap forward. Virtually no other education provides this experience. The single best preparation for life is studying great ideas with bright colleagues under the guidance of able and well prepared faculty. As we learn to look anew, we undergo an intellectual awakening that changes us.

Finally, what happens because of us? At Westmont education means more than education for education alone. We have a daily choice whether or not we engage the world with meaning, purpose and drive, or simply disengage from any meaningful connection with it. We want our students to think across disciplines and master a vast array of knowledge to have at their disposal the possibilities of solving unsolvable problems in new ways. We offer an opportunity to develop a moral foundation that can sustain our graduates all their lives.

As we move deeper into the 21st century, I trust that the original vision Mrs. Kerr and others crafted for our school will continue in real and vital ways as we provide an education committed to academic rigor, moral and faith development, and the relentless pursuit of excellence. May God be with you as we pursue these efforts together.

A Brief History

In 1937, Ruth Kerr helped establish a school that became Westmont, a liberal arts college committed to rigorous academics and deep love of God. Wallace Emerson, the first president, envisioned an institution that rivaled the best colleges nationwide, and he set the standard for academic rigor and excellence that still applies.

Outgrowing its Los Angeles campus in 1945, Westmont moved to the former Dwight Murphy estate in Santa Barbara, keeping its Mediterranean house, formal gardens, wooded pathways and stone bridges. After achieving accreditation in 1958, the college added nine major facilities on campus in the 1960s. Enrollment rose to 840, and in 1976, Westmont received permission for 1,200 students. In 2007, the county approved an updated campus master plan.

Gayle D. Beebe became Westmont's eighth president in 2007. He has focused on strategic planning, completing the campus master plan, and building a strong financial base for the 21st century. He led the successful recovery from the 2008 Tea Fire and the 2017 Thomas Fire and the 2018 Montecito debris flow, the national Bright Hope for Tomorrow and Strength for Today capital campaigns, and construction of Adams Center for the Visual Arts, Winter Hall for Science and Mathematics, the Global Leadership Center, an observatory, and renovated athletic facilities., and the purchase of two downtown Santa Barbara buildings, adding more than 380,000 square feet in new and remodeled facilities. The college has launched Forward in Faithfulness: The Campaign for Westmont.

President Beebe has overseen the creation of the Martin Institute for Christianity and Culture, the Dallas Willard Center for Spiritual Formation, the five centers associated with the Global Leadership Center (the Mosher Center for Moral and Ethical Leadership, the Hughes Center for Neuroscience and Leadership, the Goble Center for Global Learning, the Eaton Center for Entrepreneurship and Innovation, and the Montecito Institute for Executive Education), the expansion of Westmont's global programs, the development of the Westmont Downtown semester, a new major in engineering, and an Accelerated Bachelor of Science in Nursing (ABSN) that began in spring 2022.

Throughout its history, Westmont has earned increasing national recognition for academic quality and its distinctive mission as an undergraduate, residential, Christian, liberal arts community serving God's kingdom by cultivating thoughtful scholars, grateful servants and faithful leaders for global engagement with the academy, church and world.

By educating the whole person, Westmont transforms students for a lifetime of service in a variety of careers worldwide, equipping them with the knowledge, skills and heart to meet the great and pressing needs of our time.

Philosophy of Education

Westmont College is an undergraduate, residential, Christian, liberal arts community serving God's kingdom by cultivating thoughtful scholars, grateful servants and faithful leaders for global engagement with the academy, church and world.

Christ Holding Preeminence. To understand Westmont is to understand its motto – Christ Holding Preeminence. We affirm with the Apostle Paul that "He is the image of the invisible God, the firstborn over all creation. For by Him all things were created: Things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities; all things were created by Him and for Him. He is before all things, and in Him all things hold together." Therefore, we do not begin with our knowledge about ourselves, but the revelation of Christ, who is the foundation for all knowing, all understanding, all wisdom. As God's image bearers, we know in part. As fallen beings, we also know that we are easily deceived in our understanding. Reconciliation with God through Christ, therefore, is not only our future hope, but the ground in which our liberal learning must be rooted.

We believe that Jesus Christ – Creator, Sustainer, and Redeemer of all things – is present in all spheres of life, both to call us into relation with Himself and to challenge us to make him Lord. We are persuaded that the Christian faith, revealed to us in the Scriptures and realized in us by the Holy Spirit, provides the most promising framework within which to pursue an education. At Westmont, we believe that we can invest ourselves fully in every undertaking, with the confidence that in so doing, we will encounter the person of Christ. We will also come to understand more fully God's purposes in the world, and to honor His call upon us to participate in them.

Liberal Arts. As a liberal arts college, Westmont seeks to help its students become certain kinds of people, not mere repositories of information or mere possessors of professional skills. Where such information and competencies are acquired, it is to be done in an intellectual and social context that nourishes a larger spiritual vision and is integrated with it. Crucially, as a liberal arts college, Westmont seeks to help inculcate those skills that contribute to leading a successful and satisfying life. For just as one must be trained in the skills that enable one to engage in a trade, so one must be trained in those skills that enable one to engage in the distinctively human activities of reasoning, communicating, thoughtfully choosing one's moral and spiritual ends, building political, economic and spiritual communities, and entering into those "appreciative pleasures" that require knowledge, experience, and trained discrimination. Herein lies the relationship between liberal learning and life, for these are the very skills that translate into performing well one's role as citizen of the state, servant of the church, member of a family, worker or professional and participant in the cultural world.

Christian. Westmont College is committed to a high view of biblical authority, an orthodox doctrinal vision, and the central importance of a personal relationship with God through Jesus Christ. It is this Christian faith that the college seeks to integrate fully into its life as a liberal arts institution. For the pursuit of a liberal arts education, with its emphasis on producing certain kinds of people and inculcating certain basic human skills essential for living a satisfactory life, cannot take place in isolation

from one's most basic commitments and beliefs. For the Christian, then, this means bringing one's biblical and theological heritage to this educational enterprise. Indeed, to have basic values and commitments that one cannot explicitly and systematically bring to this task is to have an education that is severely truncated, severed, as it were, from one's most important beliefs and values. To isolate one's worldview in this way, while pursuing an education, will only result in a worldview uninformed by sustained intellectual reflection. Such an approach will yield persons who are not fully educated, indeed not educated at the core of their being. For the Christian, therefore, higher education must be Christian education, if it is to be education for the whole person. At Westmont, then, Christian faith is to inform the academic enterprise and the academic enterprise is to inform one's Christian faith and thus yield a Christian worldview that is biblically based and intellectually sound.

***U*ndergraduate.** Westmont is an undergraduate college and as such directs its attention, focuses its resources and devises its pedagogical strategies to facilitate the development of students who are beginning their post-secondary education. It follows that the primary emphasis at Westmont is on teaching. But teaching often involves helping students to acquire research skills and to become themselves producers of knowledge. This can be done effectively only as faculty model research skills for students, and mentor them in the acquisition of those skills. Moreover, to create a vital intellectual environment profitable for undergraduate students, Westmont must be an institution where knowledge is generated as well as transmitted. But producing such knowledge is to be largely (though not exclusively) evaluated and appreciated in terms of the benefits that accrue, directly or indirectly, to those undergraduates who have come to Westmont to receive their education. For it is those students that the educational programs at Westmont are dedicated.

***R*esidential.** The educational programs of Westmont College are residential in character and reflect a commitment to facilitate the ways in which education occurs within community. Indeed, ever since the monastic tradition, learning has been cultivated and transmitted within residential communities, enabling learning to be promoted by the joys of shared exploration and the sustenance of spiritual kinship. Moreover, both the Christian and liberal arts traditions remind us of the integrity of human wholeness; we cannot be neatly compartmentalized into rational, spiritual and affective components. The residential character allows and encourages expression of this wholeness as we live, learn and worship together. Further, the residential character of the college reflects the conviction that the goal of all meaningful learning, and of biblical education in particular, is to inform the way we live. The residential character of the college invites students to apply their studies to the daily task of creating a community in which individuals can grow and mature together. Students are able to cultivate these patterns of adulthood and redemptive living in the presence of role models and mentors who can help them in this process.

***G*lobal.** Westmont is to be a college with global concerns. For the earth and all its peoples are God's good creation. As such, they must be appropriately valued and respected. We are called in scripture to be stewards of the earth, to be faithful caretakers of the physical creation. We are also called to appreciate the rich diversity of human cultures – cultures shaped by people who bear the mark of God's image in

creation. We are, then, to be a community informed and enriched by thoughtful and intentional study of and interaction with cultures other than our own. Ours is, however, a fallen world, and the earth, its peoples, and their institutions stand in need of the redemptive, reconciling word of the gospel. We are called, therefore, not only to appreciate and preserve the creation and human cultures, but also to participate in the work of the Kingdom in response to the Great Commission to make disciples of all nations – to bring all creation and human institutions under the Lordship of Christ. This task involves grappling with the full range of ways in which the fall has introduced blindness, disintegration, conflict, and injustice into the world. Finally, the emphasis on the global nature of education is a recognition that our world has increasingly become interconnected and interdependent. To prepare people to function intelligently, effectively and for the good in a world of global politics, global economics, and global communications must be one of the aims of a Westmont education.

Statement of Faith

***W*estmont College** is a liberal arts college committed to Jesus Christ and belonging to the worldwide evangelical Protestant tradition. In that tradition, the college's trustees, administrators, and faculty participate in many different churches and with them confess such historic statements of the church as the Apostles' Creed and the Nicene Creed. In faithfulness to God, who is the source of truth, and under the authority of Scripture, we joyfully and humbly affirm the following articles of faith, which guide our learning, teaching, and living.

We believe in God

The Lord our God alone is God, holy and loving, revealing in creation and in Jesus Christ God's own power and glory, grace and mercy. The Lord our God alone is God, just and true, perfect in being and trustworthy in action.

The Lord our God is infinite and beyond imagination; our minds can never fully know God nor our hearts completely grasp his ways. The Lord our God is faithful and steadfast, unfailing in word and deed.

The Lord our God is Triune—one being in three persons—Father, Son, and Holy Spirit in co-equal, co-eternal communion. The Lord our God, Creator and Sustainer of all that is, redeems the world from its fallenness and consummates his saving work in a new heaven and a new earth.

. . . the Father, Son, and Holy Spirit

God the Father is the source of all that is good. He is Father to his eternal Son, Jesus Christ, and to all who are adopted as his sons and daughters through faith in Jesus Christ. He has sovereignty over us, affection toward us, and glory for us.

God the Son became incarnate in Jesus Christ—one person in two natures, fully human and fully divine—who was conceived by the Holy Spirit and born of the virgin Mary. In his life and in his death on the cross he conquered the powers of darkness, paid the penalty for our sin, and demonstrated God's love for the world. In his bodily resurrection his life and death are vindicated, and he is revealed to be the only judge and redeemer of the world. He intercedes for us now before the Father and will return in glory.

God the Holy Spirit is Lord and Life-Giver, the one who empowered Jesus Christ and who empowers his people to continue God's work today. God the Holy Spirit convicts us of sin, brings us to faith in Jesus Christ, and conforms us to the image of Christ. The Spirit inspired the authors of Scripture and guides the church in faithful translation and interpretation. The Bible, consisting of the Old and New Testaments, is God-breathed and true, without error in all that it teaches; it is the supreme authority and only infallible guide for Christian faith and conduct—teaching, rebuking, and training us in righteousness.

. . . the Author of our salvation

God created humankind for unbroken relationship with God, one another, and the rest of creation. Through Adam's disobedience, we fell into sin and now suffer alienation and brokenness. The effects of sin are so pervasive that apart from God's grace we are lost and dead. Only by God's grace through faith in Jesus Christ are we saved and made alive.

In bringing us to faith in Jesus Christ, the Spirit incorporates us into the body of Christ, his church, the community of all believers in heaven and on earth. The church is called to bear witness to Christ among the nations by praising God, preaching the good news, discipling believers, healing the sick, serving the poor, setting free the oppressed, and caring for creation. The gifts and fruit of the Holy Spirit empower the church for this mission.

Jesus Christ will return one day in his glorified body to judge the living and the dead. Those who do not believe in him will be raised to suffer forever a just punishment. Those who believe in him will be transformed, their bodies raised imperishable and incorruptible, to live and reign with him forever in a new heaven and a new earth in which there will be all that is good and true and beautiful, but no sorrow, no tears, and no evil thing.

And so we pray: Come, Lord Jesus.

Even these declarations of faith do not define in detail what an individual Christian might believe in many important areas of doctrine and theology. Moreover, as a college seeking to serve evangelical Christians from many denominations, we feel less of an obligation to decide these various points in detail than we do to celebrate not only our unity in Jesus Christ but also our freedom to disagree, and to continue grappling in the many non-essential elements of our faith.

Academic Resources

The chief academic resource of any institution of higher education is its faculty and staff, but these committed people rely on programs and facilities which enhance learning.

Orientation and First-Year Experience. Westmont conducts a comprehensive orientation program for new students. All new students (including transfers) attend the Warrior Welcome before classes begin. At Westmont we desire to establish new students on a strong academic footing and to assist them in developing sound relationships with faculty and peers. Orientation also provides space to make a personal transition to Westmont and to become familiar with campus resources and involvement opportunities.

There are other first year experience components as well. All new students are assigned a Student Success Coach who will meet with them during the first month of classes. Our First-Year Experience involves both the Academic and Student Life offices in order to best provide for the transition needs of new students. A First-Year Adventure Day is offered early each fall as a means to develop relationships, enjoy Santa Barbara, and to become integrated into the Westmont community. If first-year students have needs or questions, they may contact the Campus Life Office (campuslife@westmont.edu) or e-mail orientation@westmont.edu.

Academic Advising. Academic advisors assist students with adjustment to college, the development of an academic program, and career/graduate school planning. In order for this relationship to be effective, students are encouraged to consult advisors on a regular basis. Incoming students are assigned a faculty advisor based upon their expressed major interest. Students may change advisors as their interests or major selections dictate. Students must receive advisor clearance to proceed with the registration process. Though advisors are available for advice and consultation, it is the student's responsibility to know and complete all requirements for a degree. Any general questions should be addressed to the Student Records Office.

Successful Scholars Seminar. Some students may need to strengthen academic skills and disciplines to learn increasingly difficult and complex material. Academic support is available to all students through the Successful Scholars Seminar. Students who do well at Westmont possess good academic skills and discipline, and the ability to organize time and information in efficient and meaningful ways. This seminar is a semester-long program that equips students in a variety of skills to help them succeed at Westmont College. If interested, students should contact the Student Records Office.

Accessibility Resource Office (ARO). Westmont is committed to ensuring equal access to academic courses and college programs. In keeping with this commitment under the Americans with Disabilities Act (ADA) of 1990, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Amendments Act (ADAAA) of 2008, individuals with diagnoses that impact major life activities are protected from discrimination and are entitled to reasonable accommodations. The information for requesting accommodations due to a disability can be found on the Accessibility Resource Office (ARO) webpage www.westmont.edu/accessibility-resources. The college will provide reasonable

accommodations to students with appropriately documented disabilities. It is the student's responsibility to initiate this process. After the student completes the online application and provides documentation, the Director or Assistant Director of Accessibility Resources will meet with the student to discuss their individual needs and reasonable accommodations. The office does not provide assessments or evaluations but may provide referrals to local providers upon request. If a student has further questions about qualifying for services, they can contact the Accessibility Resource Office by emailing aro@westmont.edu. The ARO is located upstairs in the Voskuyl Library.

***W*riters' Corner.** All students can receive free writing support by visiting Writers' Corner in the Learning Commons of Voskuyl Library (VL 215) or visiting our online portal (http://westmont.mywconline.com). Appointments are recommended; drop-ins are also welcome. Peer tutors assist clients at all stages of the writing process; tutors are recommended by faculty and trained by the English Department. For the most recent information about the writing center, visit the Writers' Corner website via the English department homepage.

***R*oger John Voskuyl Library**, named for Westmont's third president, is a center for teaching, learning, and scholarship. Westmont librarians provide research-related instruction for students in topic development, finding, evaluating, and integrating sources. Librarians work closely with academic departments to ensure that the library's collection of books, periodicals, music scores and electronic resources grows in focused ways to meet student and faculty needs. Materials not owned by the library may be borrowed through an interlibrary loan network. Students have access to one-on-one research consultations at the Research Help Desk as well as access to certified peer tutoring for select General Education and STEM courses through the Library tutoring program.

***T*he Learning Commons** is on the main level of the Voskuyl Library and is home to the Circulation Desk, the Research Help Desk, Writers' Corner and the IT Help Desk. There are also 53 individual computer work stations, printers, a variety of comfortable seating choices, walk stations, and technology-enabled group study rooms. Collaborative, quiet and silent learning spaces are available throughout the building. The College Archives and Special Collections, located on the lower level of the library, preserve records and artifacts relating to Westmont College's history, 1940 to present, and that of its predecessors, Western Bible College, 1939-1940, and the Bible Missionary Institute, 1937-1939. The Accessibility Resource Office (ARO) and Print Services are also housed in the building. This 21st century space brings together students, faculty, and staff in an environment designed to foster collaborative, creative work and social interaction.

Accreditation and Memberships

Westmont College is accredited by the WASC Senior College and University Commission (WSCUC; 1001 Marina Village Parkway, Suite 402; Alameda, CA; 94501; phone 510-748-9001), an institutional accrediting body recognized by the U.S. Department of Education. Westmont's teaching programs, with specialization in elementary and secondary teaching, are accredited by the California Commission on Teacher Credentialing. Westmont College is also accredited by the National Association of Schools of Music and the American Chemical Society. The Accelerated Bachelors Degree in Nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE). Approval has been granted for the training of veterans and war orphans.

Westmont is a member of the Association of Independent California Colleges and Universities; the Council of Christian Colleges and Universities; the Association of Governing Boards (AGB), the Christian College Consortium; and the Annapolis Group of national liberal arts colleges. Its financial policies are in accordance with those of the Evangelical Council for Financial Accountability (ECFA).

Westmont College does not unlawfully discriminate on the basis of race, color, national origin, ancestry, sex, sexual orientation, gender, gender identity, gender expression, age, disability, genetic information, medical condition, religion, marital status, military status or veteran status in its admissions policies or in the administration of its educational programs, including scholarship and loan programs, and athletic and other college administered programs and activities. Inquiries regarding the obligations of Westmont College under Title IX of the Education Amendments of 1972 and under the Civil Rights Act of 1964 may be directed to: Jason Tavarez, Executive Director of Institutional Resilience / Title IX Coordinator; telephone: (805)565-6633, email: jtavarez@westmont.edu or to the Director, U.S. Department of Education, Washington, D.C. 20201.

The Student Handbook and the College Catalog describe several processes that students are encouraged to use whenever appropriate for registering complaints or grievances. In addition to or in lieu of these college processes, students may file a complaint against the institution with Westmont's accrediting agency or with the State of California:

WASC Senior College and University Commission
1001 Marina Village Parkway, Suite 402
Alameda, CA 94501
(Tel.) 510.748.9001
(Fax) 510.748.9797
(Web) http://www.wscuc.org

Bureau for Private Postsecondary Education
P.O. Box 980818
West Sacramento, CA 95798-0818
(email) bppe@dca.ca.gov
(Tel.) 888.370.7589

(Web) http://www.bppe.ca.gov

Institutional Graduation Rate. Westmont College is pleased to provide the following institutional graduation rate information in compliance with the Higher Education Act of 1965, as amended. The rates reflect the graduation status of students who enrolled in college for the first time as full-time students in the Fall of 2016 through Fall of 2019. The graduation rate is based on the number of students completing their degrees within six years, which equates to 150% of the length of Westmont's 4-year, baccalaureate programs. The average graduation rate over this four-year span is 70.0%.

The Educational Program

***A*cademic Program.** In keeping with our overall philosophy of education, our academic program is designed to foster intellectual vitality, Christian character, and commitment to service that will last a lifetime. Crucial to this goal is providing our students with an education that is both deep and broad. In the context of a major, students learn the discipline of submitting to a particular methodology and of mastering a specialized body of content. It is in their general education that they acquire the tools for relating this specialized knowledge to other realms of understanding, to their own lives, and to the world around them. In addition to acquiring the knowledge and skills embodied in the general education program and a major, we at Westmont also hope that our students are put on a trajectory of development that will lead them to live wisely and effectively and to be agents of God's loving and gracious redemptive purposes in the world. Throughout the entire curricular and co-curricular programs, the design of the Westmont educational experience is guided by institutional learning goals and outcomes which foster learning and development.

I*nstitutional Learning Outcomes.** Our Institutional Learning Outcomes concern themselves with those areas of an education that go beyond mastery of the content in any particular subject area and are common to all areas of study at Westmont. Institutional Learning Outcomes are a subset of intended outcomes that support our mission and describe in concrete terms what our educational goals mean. They serve as tools in our mission-driven assessment toolkit identifying what students will be able to ***demonstrate, ***produce*** *or* ***represent*** as a result of what and how they have learned at Westmont.

1. **Christian Understanding, Practices, and Affections:** *Westmont graduates will demonstrate literacy in biblical and orthodox Christian faith; Westmont graduates will practice the disciplines of mind, body, and heart that foster faithful Christian living and service.*
2. **Diversity:** *Westmont graduates will effectively analyze topics and human experiences using categories such as race, ethnicity, gender, sexuality, socio-economic status, and disability with respect to a biblical vision of human flourishing.*
3. **Global Awareness:** *Westmont graduates will recognize global interconnectivity and opportunities, and will analyze the systemic dimensions of major global challenges, informed by a biblical vision of justice, responsibility, and love.*
4. **Critical Thinking:** *Westmont graduates will demonstrate sound judgment and creative thinking when evaluating the strength of evidence in support of a claim.*
5. **Quantitative Literacy:** *Westmont graduates will apply relevant scientific, mathematical and logical methods to analyze and solve problems effectively.*
6. **Competence in Written Communication:** *Westmont graduates will write effectively in various contexts.*
7. **Competence in Oral Communication:** *Westmont graduates will effectively communicate orally in various contexts.*
8. **Information Literacy:** *Graduates of Westmont College will strategically research, wisely evaluate, and ethically integrate sources in various contexts.*

Major Program. Each student, by the end of the sophomore year, will choose a major program. (The various major programs are outlined later in this catalogue.) A major program educates students in a coherent field of study compatible with the goals of a liberal arts education. The program should give students a solid grounding in the content and methodologies of the field of study. In every case the choice of courses and program structure should be informed by disciplinary standards. Both B.A. and B.S. programs should include courses that equip students to work at an advanced level. In majors that offer both degrees, the B.A. is intended to be a more flexible program, while the B.S. provides deeper exploration well suited to students who intend to pursue graduate studies. Every major should include a capstone experience designed to integrate the knowledge, skills, and virtues that students have developed in the major program. As the word 'capstone' suggests, these experiences should normally be offered to students as they approach the end of their college careers.

General Education. In the tradition of the liberal arts, Westmont's academic program requires students to set their major programs of study within the larger context of General Education. The General Education framework ensures that students' major programs will be supported by the skills, the breadth of knowledge, the strategies of inquiry, and the practices that will enable them to mature in wisdom throughout their lives and to apply their learning effectively in the world around them.

As a liberal arts college in the Christian tradition, we ground our pursuit of learning and wisdom in the context of God's revelation—manifested in the scriptures and in the world around us, and apprehended through reason, observation, experimentation, and the affections. Through the General Education program, students develop the necessary contextual background, concepts, vocabulary, and skills to support their exploration of these various avenues to understanding the world.

In addition to developing knowledge and skills, our general education curriculum at Westmont seeks to inspire students to become appropriately self-aware constructive agents of redemption in a diverse, complex and fallen world. Thus, the General Education program provides opportunities for students to encounter a variety of viewpoints, cultures, and languages. Finally, we offer students the opportunity to practice their learning in the context of concrete experiences that facilitate the acquisition of wisdom, empathy and practical expertise.

An Introduction to General Education

Westmont students grow in ways that reflect the rich diversity of God's created order. But students are nourished by a common grounding that provides a shared context for growth in the Christian liberal arts tradition. As they grow in faith, students become rooted in the canon of the Old and New Testaments and in theological understanding. As they grow in skill, students cultivate their ability to write cogently, to reason mathematically, to converse in a language other than their native tongue, and to be fit stewards of their bodies. As they grow in knowledge, students increase their ability to grasp world history, to read and analyze discerningly from a Christian perspective, and to distinguish truths and values as they think through issues of eternal significance.

Recognizing the breadth of their heritage, Westmont students explore a variety of the branches of human knowledge and inquiry. Such exploration necessarily involves choice.

In choosing courses, students will encounter some disciplines and not others. But the array of options within the general education program ensures that in reaching out to a wide variety of specific branches, each student will grasp something of the rich diversity of human learning as an organic whole. By becoming familiar with the vocabularies and types of questions asked in several disciplines, students equip themselves to responsibly participate in increasingly diverse local and global communities.

Students encounter their heritage through courses labeled Common Contexts, Common Inquiries, and Common Skills and Emphases. Each Common Contexts class grounds students in a body of material and explicitly invites them into an understanding of the Christian liberal arts. Each Common Inquiries class empowers students to explore the knowledge, methodologies, and modes of inquiry of a given discipline. Common Skills and Emphases classes encourage students to develop their verbal, quantitative, or physical dexterity, or to see major areas of thought and experience through a certain lens, such as biblical justice and reconciliation in a fallen world.

An Overview of General Education

A minimum grade of "D-" at Westmont is required to satisfy General Education requirements.

I. Common Contexts

Common Contexts courses must be taken at Westmont College or at an approved institution similar to those in the Christian College Consortium.

A. Biblical and Theological Canons

1. Introduction to the Old Testament
2. Introduction to the New Testament
3. Introduction to Christian Doctrine

B. Introduction to the Christian Liberal Arts

1. Philosophical Reflections on Reality, Knowledge, and Value
2. World History in Christian Perspective

II. Common Inquiries

Courses satisfying each of the 8 categories

A. Reading Imaginative Literature

B. Exploring the Physical Sciences

C. Exploring the Life Sciences

D. Reasoning Abstractly

E. Working Artistically

F. Thinking Globally

G. Thinking Historically

H. Understanding Society

III. Common Skills and Emphases

A. Three writing-intensive or speech-intensive courses:

1. Writing for the Liberal Arts
2. Writing/Speech Within the Major
3. Writing/Speech Outside the Major

B. Quantitative and Analytical Reasoning

C. Modern / Foreign Languages

D. Justice, Reconciliation, and Diversity on Biblical and Theological Grounds

E. Physical Education (four 1-unit courses) - Fitness for Life plus three activity courses

The Components of General Education

I. Common Contexts

Common Contexts courses must be taken at Westmont College or at an approved institution similar to those in the Christian College Consortium. In order to obtain the developmental benefits, the general education program is designed to confer and to insure timely progress toward graduation, it is strongly recommended that students complete the *Common Contexts* requirements by the end of the second year.

Transfer students attending Westmont for fewer than three years must complete one requirement at Westmont from the *Biblical and Theological Canons* for each full year of attendance at Westmont. Similarly, transfer students attending Westmont for fewer than two years must complete one requirement at Westmont from the *Introduction to the Christian Liberal Arts* for each full year of attendance at Westmont. Transfer students are encouraged to complete the entire requirement in order to receive the full benefit of the general education Program. *Please note: Reapplicants who originally entered Westmont as first-year students are <u>not</u> considered transfer students regardless of the length of time they were away from Westmont or the number of units they transfer back to Westmont on their return.*

A. Biblical and Theological Canons

Through completing these courses, students should increase their biblical and theological literacy, thereby gaining essential resources for the integration of faith and learning throughout the curriculum.

1. **Introduction to the Old Testament**
2. **Introduction to the New Testament**
3. **Introduction to Christian Doctrine**

B. Introduction to the Christian Liberal Arts

The requirements in this section introduce students early in their time at Westmont to the nature and purpose of a Christian Liberal Arts education. Although each of these requirements introduces students to the Christian liberal arts through a particular disciplinary or methodological lens, they all are intended to draw students explicitly into the questions and the concerns that we hope will pervade their entire education at Westmont. These themes include, among others: an exploration of what it means to be human; what it means to live a good life; and what it means to pursue justice as a citizen of both this world and the Kingdom of God. As a result of having fulfilled these requirements, students will have an appreciation for the development of the Christian Liberal Arts tradition. In addition, they will be on their way to developing categories of critical evaluation, sensitivity to historical context, and other essential capacities of a liberally educated Christian.

1. **Philosophical Reflections on Reality, Knowledge, and Value.** Courses satisfying this requirement give significant attention to the nature of reality, our prospects for knowledge, and ethical or aesthetic values. Students in these courses should understand and appreciate the bearing of metaphysical assumptions on more specific matters; recognize how assumptions about knowledge affect such pursuits as science, mathematics, theology, and self-understanding; recognize the import of competing value claims; practice identifying and assessing arguments for philosophical claims; and emerge with a sense of how to think Christianly about various world views.

2. **World History in Christian Perspective.** Students will explore world history from a Christian perspective and engage in critical discussion of the term "Christian perspectives" as a concept whose definition is subject to interpretation. Geographically comprehensive and chronologically wide-ranging, the course exposes students to the stories of diverse peoples and trajectories that shape contemporary issues relating to race, ethnicity, migration, and justice in the United States and globally, with the goal of challenging stereotypes and developing a thoughtful, informed approach to local and global cultures.

II. Common Inquiries

Common Inquiries courses, collectively, seek to introduce students to a range of methodological approaches that one might employ in the quest for knowledge. These courses give particular attention to various ways of acquiring knowledge and evaluating information and incorporate appropriate consideration of the resources and implications of information technology.

Students take courses to satisfy each of the following eight categories. A student who wishes to use AP or IB credit to satisfy more than three Common Inquires requirements may do so by passing an appropriate advanced course and filing a petition with the Student Records Office.

A. Reading Imaginative Literature. Students will develop skills in analyzing and understanding the ways of knowing provided by imaginative literature. Such an approach invites students to see how literature reveals things we cannot know except

by inference or by metaphor. Students in these courses should recognize how imaginative literature honors the complexity of human experience. Further, students will engage in ways of knowing that are inherently ethical by engaging in the practice of compassion by imagining the other.

B. Exploring the Physical Sciences. Students will learn the basic properties and principles of matter and, examine the structure and function in elementary physical systems traditionally studied by physicists and chemists. Students should come to appreciate both creative and systematic aspects of scientific method, and should come to understand the power of theory and prediction within the framework of empirical/experimental modes of inquiry.

C. Exploring the Life Sciences. Students will learn to think about complex living systems within the framework of the natural sciences. Whether experiencing the breadth of disciplines encompassed by the life sciences or focusing more narrowly on a single field of study, students will gain fundamental understandings of life processes rather than solely mastering technical applications based on those principles. As appropriate, students will be introduced to the methods used to develop the models of life processes they are studying and they should come to understand both the strengths and the limitations of those methods, especially as they impinge on a broader philosophical view of life.

D. Reasoning Abstractly. Students will focus on critical and analytical reasoning about non-empirical, abstract concepts, issues, theories, objects and structures. Students in these courses should learn to understand and evaluate abstract arguments and explanations, analyze abstract concepts and solve abstract problems.

E. Working Artistically. Students will expand their understanding of the fine arts and performing arts, including music, visual arts, or theatre. Students will develop and expand perceptual faculties, develop physical practices integral to the art form, and explore the critical principles which guide artists in the area.

F. Thinking Globally. Students will develop an awareness and appreciation for the dynamics of a particular artistic, economic, political, scientific, or social connection across cultural or regional boundaries. Fully appreciating global connections and their impact on the lived experience of people requires knowing something about the places being connected and the people being impacted. Courses that address the particular cultures, religions, histories, politics, art, and economics of diverse regions are thus an important component of global thinking, which should inform discussions of international crises of various kinds, for example, inequalities of power, wealth, gender, race/ethnicity, and cultural influences, or war, epidemics, environmental crises and climate change, religious extremism, market failures, and cyber security.

G. Thinking Historically. Students will develop an awareness and appreciation for the particularities of time and place, a sense of the complex process of change and continuity over time, the ability to work critically with a range of primary and secondary historical texts, and appreciation for the art of constructing historical

narrative. By studying specific historical periods, the history of Christianity, the history of academic disciplines, or by taking interdisciplinary courses, students should: become critical readers of a range of historical sources; appreciate the importance of historical context in shaping our understanding of the world in which we live; be able to engage in thoughtful interpretive and historiographic discussion; have practice in constructing a historical narrative; understand the complexity of historical change.

H. Understanding Society. Students will develop an understanding of society, culture, economics, and/or politics. Students should recognize the dynamic interplay among individuals, groups, institutions, cultural norms, and public policy. Courses provide exposure to a breadth of literature regarding models or theories that explain how we understand society. Students will reflect on how interpretive and objective theories interact with their values, beliefs, and worldviews. Put differently, students will explore questions of "what is?" and "why is it so?" to better inform their vision of "what ought to be."

III. Common Skills and Emphases

Common Skills and Emphases courses encourage students to develop their verbal, quantitative, technological, or physical dexterity to see biblical justice and reconciliation in a fallen world. *Until the requirements have been satisfied, it is recommended that students complete at least one Writing/Speech Intensive and one Physical Education course per year.*

A. Three Writing-Intensive or Speech-Intensive Courses. Students develop their communication skills at Westmont by taking at least three courses that emphasize writing fluently or speaking clearly and effectively. All students are encouraged to take a writing-intensive course during their first year at Westmont. Such writing-intensive or speech-intensive courses encourage students to develop their abilities to articulate information, ideas, and convictions both in written and oral discourse. Students are expected to be able to communicate effectively to a wide range of audiences, within the academy, the church, and the public. The Writer's Corner enables students at all levels to discuss writing strategies individually with peer consultants.

1. **Writing for the Liberal Arts.** To fulfill this requirement, students may:
   a. take ENG 002 Composition at Westmont
   b. complete an equivalent course to ENG 002 at another college or university
   c. submit a score of 4 or 5 on the AP test for Language and Composition or the AP test for Literature and Composition taken before their first semester at Westmont.
   d. submit a score of 5, 6 or 7 on the Higher Level IB examination for English A1 taken before their first semester at Westmont.

Students who submit a test score of 610 or higher on the Evidence-Based Reading and Writing section of the SAT or a test score of 10 or higher on the ACT English Writing subscore are not required to take ENG 002 Composition and may fulfill the Writing for the Liberal Arts requirement by taking a writing-intensive course offered by any department. If students intend to use a test score to waive the ENG 002 Composition requirement the test must have been taken before their first semester at Westmont. Students who have satisfied their English Competency requirement with a qualifying test score may take any writing-intensive course that has not already been applied to the Inside/Outside the Major requirement. Writing-intensive courses include ENG 002 or ENG 002ENV, which are foundational courses in Writing for the Liberal Arts and which benefit students, regardless of their test scores.

2. **Writing-Intensive or Speech-Intensive Course within the Major.** All students take at least one writing-intensive or speech-intensive course in their major.
3. **Writing-Intensive or Speech-Intensive Course outside the Major.** Students completing a single major take a writing-intensive or speech-intensive course in any field outside that major. Students completing a double major take a writing-intensive or speech-intensive course in both majors. Students majoring in English may fulfill this requirement by taking an additional writing-intensive English course.

B. Quantitative and Analytical Reasoning. Since many phenomena in our world can best be understood through quantitative and analytic methods, students should develop the ability to interpret, evaluate and communicate quantitative ideas. Central to this experience is: the use of mathematical models for physical or social systems or; the understanding and communication of numeric data including the computation and interpretation of summative statistics and the presentation and interpretation of graphical representations of data. Students should gain skills in quantitative and analytic methods, or, alternatively, the reflective use of quantitative methods as a tool.

C. Modern/Foreign Languages. Westmont encourages students to continue developing their fluency in a language other than their native tongue by requiring students to complete one semester of college language beyond the level of the two-year entrance requirement to the college. Alternatively, having met the entrance requirement in one language, they may take one semester of college-level study in another language. A course in any modern spoken language (e.g. Spanish, French, or German) or ancient language (e.g. Greek or Hebrew) is accepted as fulfilling this requirement. Students can also satisfy this requirement if they (1) submit a SAT Language Subject Test score of 580 or higher, (2) place into the fourth semester (or higher) of a language in a proctored examination setting at Westmont College or (3) present evidence of a primary language other than English to the Student Records Office.

Realizing that learning a foreign language may be especially difficult for those with certain disabilities, Westmont offers accommodations for those who have a **documented language-based learning disability**. These students may take one semester of college level language at Westmont with the class graded on a Pass/No

Credit basis, or they may take one semester of college level American Sign Language (ASL) for a letter grade at a community college. To qualify, students must present documentation of their disability to the Director of Disability Services. The Director will verify the documented disability and notify the Student Records Office if the student is eligible for a language-based learning disability accommodation.

D. **Justice, Reconciliation, and Diversity on Biblical and Theological Grounds.** Courses in this area explore God's desire and call for people to satisfy the demands of love in a broken world in which sin has set all people — men and women, insiders and outsiders, families, tribes, races, and nations — against one another, their differences often serving as a pretext for mistreatment. God's mission in Jesus Christ should shape how Christians understand their call to work in the world, in the church, and in civil society, guiding how we act and relate to others, bear witness, and engage wider cultures. Investigating issues and understandings of justice, reconciliation, and diversity is crucial for the mission of a Christian scholarly community serving the kingdom by engaging the academy, church, and world,

E. Physical Education. The physical education program is designed to provide instruction and exposure to fitness, skill-based and leisure activities. All students are required to take Fitness for Life and three 1-unit physical activity courses. Students establish a wellness-based foundation in Fitness for Life and build on this foundation with the additional three activity courses providing reinforcement for a lifetime of physical activity. Subsequent PEA courses in a given activity must be at a higher level. Transfer students must complete one Westmont PE Activity course for each full year they are enrolled at Westmont, including PEA-032 Fitness for Life, or complete all four (4) PE Activity course requirements. *Please note: Reapplicants who originally entered Westmont as first-year students are <u>not</u> considered transfer students regardless of the length of time they were away from Westmont or the number of units they transfer back to Westmont on their return.*

Academic Program

Degree Requirements. In order to equip Westmont students to function with a global, Christian worldview, in the world in the 21st century, the goals of the College's degree requirements are that students will:

1. develop an understanding and appreciation of the principal areas of human knowledge, including biblical Christianity;
2. learn how to express themselves clearly and objectively in both oral and written forms;
3. develop clearer understanding and perspective toward themselves and others in the context of an increasingly global and diverse society;
4. be equipped to accept social, religious, political, economic, and scientific positions of trust and leadership.

Students receive the Bachelor of Arts, Bachelor of Science, or Bachelor of Music degree when they complete the following:

1. A minimum of 124 semester units. Some programs of study may require more than 124 units to complete.
2. A minimum grade point average of 2.0 for all courses taken at Westmont and a minimum grade point average of 2.0 for all courses taken for the major(s) and minor(s) at Westmont.
3. The Senior Residency requirement: The final year (two full-time semesters), or 32 of the last 40 units for the degree taken at Westmont or on a Westmont approved off-campus program.
4. The general education requirements.
5. A major program.
6. At least one-half of the upper-division major requirements taken at Westmont or on a Westmont approved off-campus program.
7. At least 60 units outside of the major department.
8. The Compassionate Action requirement

All candidates must file an application for degree no later than the second semester of their junior year.

The application of certain courses to the degree program is limited as follows:

1. A maximum of 12 units of internship credit.
2. A maximum of 12 units of applied music (MUA) credit, unless the lower-division requirements for the music major have been completed, in which case there is no limit.

3. A maximum of 8 units of physical education activity courses (PEA), 1 unit of which must be "Fitness for Life" and not more than one PEA course per semester. Subsequent PEA courses in a given activity must be at a higher level. Varsity sports are considered the highest level. Varsity athletes may use the PEA class related to their sport one time to fulfill a PEA requirement and up to three additional times for unit credit toward their degree within the 8-unit maximum noted above.
4. A maximum of 12 units may be earned through approved extension courses, and 20 units through credit by examination (excluding Advanced Placement, International Baccalaureate, GCE A Level, CLEP and DSST credit) not to exceed a combined total of 32 units of credit for learning demonstrated by taking a comprehensive examination. CLEP and DSST credit may be applied to elective credit only. No student may earn credit in these ways during the final semester before graduation. Students must apply for Credit by Examination through the Student Records Office. See the list of fees for cost per unit. Grading for Credit by Examination is pass/no credit, unless the faculty member and student mutually agree on letter grading.
5. Concurrent enrollment (enrollment for credit at another school while enrolled at Westmont) may occasionally be permitted for program enrichment or for solving serious class scheduling conflicts under the following conditions:
    1. the student must file a petition requesting approval for concurrent enrollment in advance of enrolling in the concurrent course
    2. the student must be a full-time student (minimum 12 academic hours) at Westmont
    3. the total academic load in the term must not exceed the academic load permitted at Westmont
    4. if transfer credit is expected, the suitability of the particular course must be established in advance through the normal pre-approval process with the Student Records Office
    5. the course should be commensurate with the student's program but not offered at Westmont College or the concurrent enrollment should be undertaken to solve a class scheduling problem such that a student is unable to enroll for the course in the remainder of the student's Westmont program.
6. A maximum of 8 units of Applied Studies courses (APP).
7. A maximum of 8 units of tutorials.
8. A maximum of 12 units of publication credit.
9. A maximum of 64 units of community, junior, or two-year college credit will be accepted. All such units will only be applied to lower-division requirements unless approved by the respective department for upper-division credit.

Second Baccalaureate Degree

A student with a bachelor's degree from another institution who pursues a second B.A., B.S., or B.M. degree will be expected to meet all of the degree requirements applicable to a transfer student. The College does not award credit for courses taken more than 25 years ago.

A Westmont graduate seeking a second bachelor's degree must meet the major requirements of a second major, satisfy all general education requirements in place at the time the second degree is initiated, and complete 30 units of work beyond the first degree, 24 of which must be taken at Westmont.

Academic Load/Student Classification

A minimum full-time course load is 12 units per semester. During the first year of college, students may be encouraged to carry only 12-14 units each semester while they adjust to the rigors of academic life. A schedule of 17 units during each semester of the sophomore and junior year and 16 units during each semester of the senior year will bring students to the 124 unit minimum needed for graduation when all four years of college are taken at Westmont.

A maximum full-time overload is 20 units (plus 1 unit of PEA) providing the student's cumulative grade point average at Westmont is at least 3.00, or at least 3.00 for the previous two terms (minimum of 12-units) at Westmont. The College does not grant permission for more than 20 units (plus 1 unit of PEA).

A maximum full-time load for a student who does not meet the grade point average requirement for an academic overload is 18 units. Students may petition for an overload of one to three units in advance of the semester stating the reason for the overload. Prior consultation with the student's academic advisor is strongly encouraged. The Registrar will notify the student of approval or disapproval.

If students wish to register for courses at another institution during any academic year (concurrent enrollment), such courses must be approved in advance by petition and the student's total academic load is limited by the academic load policies noted above.

Official classification is based on the number of units completed toward graduation as follows: first-year students 0-25; sophomores 26-58; juniors 59-91; seniors 92 or more.

Credit Hours

Credit hours represent the amount of student work required to accomplish stated student learning outcomes and are verified by evidence of student achievement.

A credit hour is equivalent to at least 3 hours of work each week over the period of the 15 week instructional term, inclusive of exams, individual work, and in-course instructional time. In-course instructional time for traditional lecture courses is based on a standard of 50 minutes per week per credit, inclusive of exams. Labs, performance ensembles, private lessons, physical education courses, and other experiential based instructional settings often apply varying ratios of in-class instructional and individual preparation time to meet this standard as appropriate to the individual course.

Major and Minor Requirements

Majors are designed to assist students in mastering a specified field. They are not merely accumulations of credit, but integrated programs aimed at developing scholars capable of independent study and research in an academic discipline.

Students must observe the following requirements:

1. Each degree candidate must complete requirements in one major field as prescribed by that department. Students are not required to have a minor.
2. Students must declare an academic major no later than the end of the sophomore year.
3. An average of "C" (2.0) is required for the total of all courses used to complete major or minor requirements.
4. Students must complete at least one-half of the upper-division units required in the major or minor requirements at Westmont or a Westmont approved off-campus program.
5. Students may not pursue a minor in their major area of study. No upper-division credits may be shared by two minors. (There is no limitation on the overlap of units between a major and a minor, or on the overlap of units between two majors.)

Grading. Grades reflect the quality of students' work:

A	superior
B	good
C	adequate
D	deficient
P	pass (unless otherwise specified in the syllabus, a grade of P indicates work at the D- level or better)
F and NC	indicates unacceptable scholastic performance below passing quality or unofficial withdrawal after the seventh day of the semester
W	indicates official withdrawal from a course through the twelfth week of classes. Also indicates a full withdrawal from all classes within a semester.
WF	indicates approved academic forgiveness after final grades were recorded. Original grade was failing work. By petition only.
WP	indicates approved academic forgiveness after final grades were recorded. Original grade was passing work. By petition only.
WX	indicates unofficial withdrawal during the first seven days of the semester

Faculty assign students a grade of I (incomplete) when the student merits additional time to complete course work because of circumstances beyond their control such as a serious illness, accident, or death in the family. Students must make up this grade within

six weeks of the end of the term in which they received it, or it automatically changes to F (NC in the P/NC grading option).

Students have one year from the end of the semester in which a grade was reported to challenge the grade. The procedure for requesting a grade change or challenging a grade can be found on the Academic Policies and Procedures page on the Student Records Office website.

Grade points per unit of credit are assigned on the following scale:

A	4 grade points
A-	3.7 grade points
B+	3.3 grade points
B	3.0 grade points
B-	2.7 grade points
C+	2.3 grade points
C	2.0 grade points
C-	1.7 grade points
D+	1.3 grade points
D	1.0 grade points
D-	0.7 grade points
P	(At least D-) No grade points assigned. Not computed in the grade point average.
F	0 grade points
NC	(F) No grade points assigned. Not computed in the grade point average.
W	No grade points assigned. Not computed in grade point average.
WF	No grade points assigned. Not computed in grade point average.
WP	No grade points assigned. Not computed in grade point average.
WX	No grade points assigned. Not computed in grade point average.

Westmont does not compute the units and grades students earned at other colleges in its grade average. (Exception: Courses and grades taken as part of a Westmont off-campus programs or through the Acadeum consortium are posted on the Westmont transcript and will be calculated in the Westmont GPA.)

Apart from the exceptions identified below, all courses at Westmont are graded using a letter scale (A, B, C, D, F).

Instructor Initiated Exceptions:

1. For pedagogical reasons, an instructor may elect to use P/NC grade reporting in any class not approved for GE credit. It is assumed that the same grade-reporting system will be applied to the entire class.
2. With the approval of the General Education Committee, P/NC grade reporting may be used in appropriate, GE-approved courses.
3. When P/NC grade reporting is used, the syllabus must reflect this fact. In addition, departments are encouraged to include a notice in the catalog that the course may use P/NC grading.

Student-Initiated Exceptions:

1. No student-initiated exceptions are available for courses taken to fulfill the student's GE requirements (except PEA) or required to complete the student's major/minor. Students who have completed all requirements for a major/minor, as determined by their application for degree, may request the P/NC grading option for additional course work offered in the major/minor department.
2. With the instructor's approval, the student may elect the P/NC grading option for any other elective course.
3. The deadline for changing the grading option is the end of the twelfth week of classes. The student must request the change in the Student Records Office. The faculty signature will verify that the student is currently doing work at a passing level.
4. The course grade sheet will be annotated to remind the faculty member of the option chosen by the student.
5. P/NC registration is limited to four units plus one PE Activity course in any term, with a maximum of eight units and two PE Activity courses per academic year (including Mayterm).

Unless otherwise specified in the syllabus, a grade of P indicates work at the D- level or better.

Automatic F (NC)—When a student persistently neglects class assignments or has excessive absences, the faculty member may request that the student withdraw from the class or may notify the student that he or she has been terminated with a grade of F (NC) in that particular class. Through the twelfth week of the semester a faculty member may assign a grade of W instead of an F (NC).

Westmont issues final grades at the close of each semester, Mayterm, and summer. The Student Records Office records final grades on students' permanent records and grade information is made available to the student on Waypoint.

***R*epeating Courses.** Students may only repeat courses in which grades of D, F, or NC are earned (unless the course is identified as repeatable for credit elsewhere in this catalog). Repeating a course previously passed with a D grade earns no additional units. When a course is repeated, the lower grade is dropped from the GPA calculation. However, the course and grade remain on the student's academic

record (transcript). Please note that students may not repeat a course at another institution that was taken at Westmont and for which a grade of "D-" or better was received and have it transfer back to Westmont. Further, students may **not** replace a "D" or "F" grade that was received at Westmont by taking a similar course at another institution. A Westmont "D" or "F" grade may only be replaced by repeating the course at Westmont.

***A*udit.** Students who audit classes receive no credit for those classes. They can attend lectures, participate in musical ensembles, or take private music lessons without having any responsibility for examinations, completing homework or papers, practicing a certain number of hours, or being evaluated. Required course fees and private lesson fees will be charged for all audits. Audit registrations are also available for non-matriculated students who wish to attend lectures for information or review. In these cases, the College assesses an audit fee. Students may change their status from credit to audit through the last day to drop a course without record each semester.

***A*cademic Standing.** To remain in good standing, a student must maintain a cumulative grade point average (GPA) of 2.00 in courses taken at Westmont and on Westmont off-campus programs.

***P*robation and Suspension.** A student is automatically placed on probation if his or her cumulative GPA falls below 2.00. A student on probation is automatically suspended at the end of the semester in which his or her cumulative GPA. remains below 2.00.

Students on probation are eligible to return for another semester. Suspended students may return only if an appeal for reinstatement is granted.

Students on academic probation must register for at least 12 units, but not more than 16 units plus 1 unit of P.E. activity. Students will be returned to good academic standing when they achieve a cumulative GPA of 2.0.

***R*einstatement.** Following academic suspension, the Admissions and Retention Committee determines whether or not to reinstate students in response to their written appeals.

***E*xtracurricular Eligibility.** Students on academic probation are ineligible to run for student body offices or to compete in intercollegiate athletics though they may continue to practice with their team.

***D*evelopmental Curriculum.** Westmont takes its mission as an institution of liberal arts and sciences very seriously. We recognize the importance of the general education requirements as a foundation for other studies and believe it is important that courses be taught at a level appropriate to the preparation of students enrolled. First-year students are limited to lower division courses (those numbered below 100) during their first semester at Westmont.

***M*ayterm.** The Westmont summer session (Mayterm) begins in early May, immediately after Commencement. Mayterm classes are five weeks in duration, allowing students to complete summer courses by mid-June. Students may

enroll in a maximum of 8 units of course credit plus 1 unit of PEA (if available). The list of courses is available in the fall each year.

***H*onors and Awards.** Beginning with merit awards to qualified first-year students through graduation honors for seniors, the College grants a series of awards and honors. Most of these include grade point average requirements, although several are designed to recognize talent in the fine arts, scholarly work in a specific subject area, or reflection of the ideals of the College. Semester honors (Dean's List) is earned with a 3.7 minimum for 12 graded units.

Graduation honors are determined from the GPA earned at Westmont and from any Westmont sponsored off-campus program: Cum laude, 3.50; Magna cum laude, 3.75; Summa cum laude, 3.90. A student must have completed a minimum of 56 units at Westmont (or a Westmont sponsored program) to be eligible for graduation honors. Graduation honors announced at commencement will be based on the cumulative GPA at the conclusion of the fall semester. Graduation honors printed on the diploma and transcript will be based on the cumulative GPA when all degree requirements have been completed.

***I*nternships.** Westmont is committed to excellence in education, both inside and outside the classroom. Our Internship Program is designed to complement regular academic instruction while providing first-hand application in the workplace. In order to receive academic credit for an internship, a student must register for an internship course.

Interns generally work within a 40-mile radius of Westmont College. Ideally, students who plan to earn credit for an internship should enroll in an internship course during regular registration periods (November for spring and April for fall internships). A student may earn internship credit through his or her major department or by taking the elective internship course through the COVE Career Center. Courses are designated by the department prefix and with few exceptions, a "190" suffix (APP-190, BIO-190, COM-190, etc.). The zero-credit service option (APP-191SS) requires the same procedure.

Once the internship or service site has been determined, students are required to complete registration by securing approval from the site supervisor and a faculty internship adviser. To do so, the student intern submits an Applied Learning Agreement Form (ALAF) on-line within the first two weeks of the semester. The on-line ALAF may be found on the student web page at www.westmont.edu/internships.

Internship seminars meet regularly during the semester. The seminars allow students to process the work experience in a community of peers, hear from alumni, examine presuppositions about work, and explore Christian calling. Students may earn Serving Society GE credit by enrolling in a *service* internship that focuses on exercising compassion while exploring an issue of justice through exposure to differences in social class, gender, ethnicity, the environment, or human disability. The internship program strives to explore ways that a Christian Liberal Arts education influences work. When experiential learning is combined with an opportunity to develop a sense of Christian calling, the result is a transformative educational experience.

***I*nternships and Fellowships for Recent Graduates.** Recently graduated Westmont students are eligible for Westmont internships and

fellowships, which must be selected through a process defined by the Provost and which must be completed within one year. Each award must be approved by the appropriate faculty department chair and by the Provost.

Directed Study. Students may receive recognition of their academic aptitude by enrolling in directed studies opportunities. Certain courses in the catalog are available only to students who meet the qualifications for directed study. Students should consult the Registrar or their academic advisers if they wish clarification of their eligibility.

094/194 Tutorial Supervised study for non-honors students.

098/198 Research Study of a particular problem in the library or the laboratory.

Major Honors. Students who have achieved a 3.50 cumulative grade point average and 3.50 average in all their major courses in their first two and one-half years of undergraduate work (at Westmont and elsewhere) are eligible to apply for Major Honors. In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee. The Academic Senate Review Committee will determine whether the student is eligible for Major Honors work and whether the proposed project is appropriate for Major Honors designation. The project can be new or a continuation of a project started earlier. Applications can be found in the Student Records Office. Completed applications will be accepted by April 1st of a student's third year or by September 15th of their fourth year. If approved, the Academic Senate Review Committee will name a major honors committee to supervise each student's project. The major honors committee is chaired by the faculty mentor and two other faculty members (one inside and one outside of the student's major department).

The first semester schedule of the Major Honors candidate carries two units of credit. The second semester schedule carries from two to four units of credit, depending on the scope of the project and the desire of the candidate at mid-project. The project schedule can be adjusted for students attending an off-campus program during their last two semesters.

Only Major Honors work that receives a grade of A or A- will result in honors in the major being conferred. See Academic Policies and Procedures on the Student Records Office webpage for more information.

General Education Honors. Some general education courses are designated as honors courses. Students who wish to work at a more accelerated and higher academic level will find these courses challenging. Honors courses are open to students with a 3.50 cumulative GPA at Westmont or to new students who are Augustinian or President's Scholars. Ruth Kerr Scholars may petition to enroll in honors courses by contacting the Student Records Office.

In-Course Honors. Students who would like to undertake honors work in a regularly offered course must meet the qualifications noted above and obtain the consent of the instructor. The instructor will submit an application to the Academic Senate Review Committee for approval (via the Student Records Office) no

later than the second week of the semester. The application must be accompanied by an honors plan developed by the instructor for the specific course.

Students who are eligible to enroll in general honors classes are also eligible for in-course honors in standard courses.

If the student completes the plan for additional work and the standard class assignments with a grade of B+ or higher the Honors designation will be applied to the course title on their transcript.

National Honor Societies.

Alpha Alpha Alpha: Tri-Alpha is an honor society that celebrates the academic achievements of Westmont College's first-generation college students. The national organization was created to recognize academic success, promote leadership, and provide a network for first-generations college students. To become a member, the student must have earned at least 30 units towards their baccalaureate degree, have achieved a cumulative GPA of at least 3.2, and neither their parents nor legal guardians have completed a bachelor's degree in the United States

Lambda Pi Eta: The purpose of Lambda Pi Eta, the national honor society in communication studies, is to foster and reward outstanding scholastic achievement in the discipline and to encourage continuing intellectual growth in communication studies. Students are invited to join when they are ranked in the top third of the junior or senior class, and have demonstrated high standards of personal and professional character.

Omicron Delta Epsilon: Omicron Delta Epsilon is the International Honor Society in Economics. Its objectives include the recognition of scholastic achievement in economics by students; the opportunity for student research in economics to be disseminated and published through professional conferences and the journal *The American Economist;* and an emphasis on the professional aspects of economics as a field of service in business, government, the academy, and international organizations. The *Alpha Pi* chapter of *ODE* at Westmont seeks to foster student growth in economic scholarship through student research presentations, lectures by guest speakers, and mentoring by faculty. To be received into membership, students must have achieved high academic standards in either a major or minor in economics.

Phi Alpha Theta: Phi Alpha Theta is the national honor society in history. The Westmont chapter, established in 2010, encourages historians—faculty and students alike—to share their research and ideas on the past. It promotes excellence in the study and teaching of history through lectures and other events. Members benefit not only from activities at Westmont but also from Phi Alpha Theta's conferences, grants, and journal (*The Historian*). To be considered for membership, a student must complete 12 semester hours in history but need not be a history major.

Phi Sigma Tau: Phi Sigma Tau is the national honor society in philosophy. Its central purpose is to serve as a means of awarding distinction to students having high scholarship and personal interest in philosophy, to provide opportunities for the publication of student research papers of merit, and to popularize interest in philosophy among the general collegiate public. To be received into membership, a student shall have attained standards of high scholarship in philosophy, but need not be a major.

Pi Sigma Alpha: Pi Sigma Alpha, the national political science honor society, stimulates scholarship and intellectual interest in political science. Westmont's chapter honors academic excellence among political science majors and provides a forum for student discussion and guest lectures.

Psi Chi: The purpose of Psi Chi, the international honor society in psychology, is to encourage and stimulate excellence in students' scholarship and professional growth, as well as further the science of Psychology. Students who are majors or minors in psychology, demonstrate superior scholarship in Psychology and their overall academic program, and have high standards of personal behavior are eligible to join Psi Chi. The Westmont College chapter was established in 1995.

Sigma Delta Pi: Sigma Delta Pi, the National Collegiate Hispanic Honor Society, honors those who seek and attain excellence in the study of the Spanish language and Hispanic literature and culture. To become a member, students must be nominated by the Modern Languages faculty and must demonstrate superior scholarship in Spanish and overall, show a genuine interest in things Hispanic, and be of good moral character.

Sigma Tau Delta: Sigma Tau Delta is the International English Honor Society. The purposes of the Society are (a) to confer distinction for high achievement in the study of English language and literature; (b) to promote interest in literature and the English language; and (c) to foster the discipline of English in all its aspects, including creative and critical writing.

Pi Kappa Lambda: The national music honorary Pi Kappa Lambda was founded in 1916, and Westmont's chapter was organized in 2016. Election to membership in Pi Kappa Lambda is indicative of superior attainment in music, together with the personal qualifications pertaining to an outstanding exponent of the art. The top 10% of Junior and 20% of Senior music majors are eligible for election to the society. Qualified students are elected annually by the faculty.

Awards. *The Faculty Scholarship Award* is presented each year to the graduating senior(s) attaining the highest cumulative record of scholarship at the conclusion of the fall semester before spring graduation. To be eligible for consideration, a minimum of 56 units must have been completed at Westmont (or a Westmont sponsored program) at the conclusion of the fall semester prior to graduation.

The Dean's Award is given to the outstanding male and female graduates who have demonstrated excellence in the classroom, made superior contributions to an intercollegiate athletic team, and evidenced a deep faith in Christ.

The Dave Dolan Award is given to the outstanding graduate whose campus leadership has made significant contributions in our awareness and response to the social and spiritual needs of the community, the nation and the world.

The Kenneth Monroe Award is given to the outstanding male and female graduates who have demonstrated superior academic achievement in the classroom, excelled as leaders on campus, and impacted other students' lives through their integrity, character, and faithfulness.

Curriculum

To implement an academic philosophy designed to meet the needs of individual students, Westmont offers a curriculum that includes a broad spectrum of disciplines. Students study under a faculty deeply committed to research and scholarly activity as well as to personalized teaching.

The following pages feature descriptions of Westmont's majors, minors, programs, and courses. They reflect the College's conviction that its curriculum must be comprehensive in nature yet specific enough to promote a breadth of perception and a depth of understanding.

Within the framework of a strong liberal arts emphasis, Westmont provides opportunities for students to build a foundation for specialized education and to expand vocational horizons.

Important Note: Prerequisites may be met by an equivalent transfer course, as determined by the Student Records Office and/or the academic department chair. Students who do not meet prerequisite requirements may be allowed to register for a class if they obtain consent of the instructor (i.e., instructor permission on Waypoint or an instructor's signature on an add/drop form).

Majors and Programs

Interdisciplinary Studies (B.A., B.S.)

Art (B.A.)

Art History (B.A.)

Biology (B.A., B.S.)

Chemistry (B.A., B.S.)

Communication Studies (B.A.)

Computer Science (B.A., B.S.)

Data Analytics (B.S.)

Economics and Business (B.A.)

Education Program

- Elementary Credential Program
- Secondary Credential Program

Engineering (B.S.)

Engineering Physics (B.A., B.S.)

English (B.A.)

English—Modern Languages (B.A.)

Environmental Studies (B.A.)

French (B.A.)

History (B.A.)

Kinesiology (B.S.)

Liberal Studies (B.A.)

Mathematics (B.A., B.S.)

Music (B.A., B.M.)

Nursing (B.S.N.)

Philosophy (B.A.)

Physics (B.A., B.S.)

Political Science (B.A.)

Psychology (B.A., B.S.)

Religious Studies (B.A.)

Social Science (B.A.)

Sociology (B.A.)

Spanish (B.A.)

Theatre Arts (B.A.)

Interdisciplinary Major

Westmont College offers twenty-seven departmental and interdepartmental majors. In addition to these officially approved majors, a student who has a particular interest or goal may wish to construct an interdisciplinary major and submit it for approval. The following guidelines should be followed:

1. The proposal specifying the title and degree (B.A. or B.S.) must be submitted at least three full semesters prior to graduation.
2. The student must secure a faculty sponsor who can endorse what is proposed as a major and who will attach a letter of support to the proposal described below and will serve as the student's academic advisor.
3. The written proposal should be submitted through the faculty member to the Student Records Office for the Academic Senate Review Committee's consideration.
4. When the title of the proposed major implies competency in a discipline or includes multiple courses from other departments the student and their faculty sponsor must consult with the corresponding departments and secure signed approval from the relevant department chairs.
5. The proposal should explain the coherence, breadth, and depth of the major being presented. Students are expected to demonstrate how the courses fit together logically; how they cover the essential components of the field of study; and how they would provide mastery of a body of material comparable in scope to other majors Westmont offers. (It may be helpful–though not required–to show that the courses proposed would constitute a major at other institutions.)
6. The courses in the proposed major should be available at Westmont.
7. Tutorial units should be limited in number according to the Academic Policies and Procedures.
8. Major Honors courses may be included in the major proposal, but the Major Honors project must be approved separately by the appropriate committees.
9. Total units for the major, the distribution of units between lower and upper division, and limits on transfer units in the major should be within the normal range for existing majors.
10. In cases where there is standing student and faculty interest but uncertain availability of courses, the full Academic Senate may approve an interdisciplinary major template submitted by a member of the faculty. Proposals conforming to the template need not include an analysis of the coherence, breadth and depth of the proposed major. Applications will be approved by the Academic Senate Review Committee subject to verification of course availability.
11. Aside from approved templates, no appeal may be made to precedent; each application is unique and individual.

Applied Studies

A maximum of 8 units of applied studies courses (APP) will be credited towards graduation degree requirements.

Lower-Division Course Descriptions

APP 002 Successful Scholars Seminar (0-1) The purpose of this course is to assist students to be successful in their academic career at Westmont College. Students will develop effective practical habits and make good use of college resources. Topics will include knowledge and understanding of why and how study skills can be best implemented. Students will have the opportunity to identify their own definition of success, as it is applicable not only to their academic program, but also their career and other areas of their life. Appropriate for students at any grade level.

APP 060 Film Production (1-2) Prerequisite: permission of instructor. Students receive hands-on training and experience in film production, with oversight from faculty and guest artists. Students are given more responsibility based on talent and experience.

APP 070 Career Sports Broadcasting Practicum (1) This course provides an experimental learning opportunity and is focused upon the on-air broadcasting of Westmont Athletic events. Students will serve as both play-by-play commentators and broadcast analysts for the productions. The course offers growth opportunities for participants in research skills, conducting interviews, public speaking, public relations and working in a team environment with other broadcasters and student producers. The course may be taken a maximum of four semesters. The course is offered on a Pass/No Credit (P/NC) basis.

APP 080 Shaping Your Westmont (1) Designed to equip students with: (1) direction surrounding major(s), career(s), and life decisions based on their individual characteristics (personality, interests, skills, values), (2) increased confidence through decreasing anxiety around meaningful work, and (3) ways to communicate these characteristics to potential employers (via resume, interviewing, job search, internships, networking). This is an interactive course where students will hear from faculty and professionals from a wide array of disciplines.

APP 085 Foundation of Residential Life (2) This semester-long required course for Resident Assistants explores the dynamic role Resident Assistants play as facilitators of community at Westmont College. The course will challenge students to examine their unique role as a facilitator of a redemptive community of learners. Particular focus will be given to an understanding of individual and community development in the context of the college community. Students will have the opportunity to gain a better understanding of the purpose and goals of residential living at Westmont College, and develop a greater understanding of community leadership.

Upper-Division Course Descriptions

APP 160 Film Production (1-2) Prerequisite: permission of instructor. Students receive hands-on training and experience in film production, with oversight from faculty and guest artists. Students are given more responsibility based on talent and experience.

APP/ENG 168 Student Publications: Horizon (1-4) Semester-long course of experiential learning in news writing. Certain positions may focus on editing, page layout, and production of a student newspaper. The editor-in-chief may receive 4 units per semester, other editors may receive 2 units per semester, and other staff typically receive 1 unit per semester. P/NC grading only for APP 168. Students enrolling in ENG 168 must complete ENG 087 as a prerequisite.

APP 170 Student Publications: Citadel (1-4) Semester-long course of experiential learning in the design and production of Westmont's yearbook. Course includes writing, editing, photography and page layout using InDesign, Illustrator, and Photoshop. The Editor-in-Chief may receive 2 units of credit and Editors may receive 1 unit of credit. This course is offered in the Fall and Spring semesters.

APP 190 Internship (1-4) Open to all majors for upper division, elective credit. Designed for students exploring a field outside of their major or for those whose major department does not offer an internship seminar. Provides supervised work experience through local public, private, or government agencies, businesses, medical facilities, schools, non-profits, churches, or parachurch organizations. Concurrent, mandatory seminar meets one hour per week over the course of the semester. Internship is supervised by a professional in the field. Course is facilitated by a faculty adviser.

APP 190SS Service Internship (1-4) Open to all majors. Supervised work experience involving a service project, response to a social problem and/or the exploration of an issue of justice. Possible work settings include public, private, or government agencies, businesses, medical facilities, schools, non-profits, churches or Para church organizations. Concurrent, mandatory seminar meets bi-weekly over the course of the semester. Supervised by a professional in the field and the seminar instructor.

APP 191SS Serving Society (0) A minimum of 12 hours of community service at an approved site over the course of the semester. Required orientation and debrief. The student's hours are documented and his or her service is evaluated by a supervisor in the community or by a Westmont Ministry and Outreach staff member. P/NC grading only.

Art

Professors S. Anderson, L. De Boer, N. Huff
Associate Professor M. Stirling (chair)

***D*escription of the Major.** The art department at Westmont helps students discover and develop their creativity and become attentive to the power of the visual arts in our world. The creation of artwork engages a conversation; each contributor brings what he or she can to the conversation, and ultimately the experience provides a channel for self-expression. A vision of the importance of the arts for a Christian liberal education forms the center of Westmont's traditionally based academic program. The program pushes for self-understanding and the realization that art forms inform one's worldview. Emphasizing basics and breadth, attention is given to the development of ideas and to the realm of problem solving as students learn to utilize media as tools for expression. Attention is also given to the importance of asking philosophical questions so that meaning can be achieved and experiences can be interpreted. Students begin with foundation courses in 2-D disciplines (design, drawing, and digital media), further expand their skillsets with courses in 3-D and 4-D learning, and develop specific media specializations via an array of studio electives. Integrated with the studio work are courses in art history, contemporary art issues and critical theory. In studio courses, students receive individualized instruction and are challenged to develop both competency in a given medium, and creativity in working with and responding to that medium. In art history courses, students are challenged to understand the visual arts as a dynamic, powerful domain of human culture. Attention to careful work habits, diligence, and patience is both valued and required. Both studio and art history courses stimulate critical thinking and intellectual curiosity about the visual realm.

***D*istinctive Features.** Students who engage the artistic process and the objects that result, and who consider the past and present roles of those objects in our world, will learn the skills, attitudes, and affections essential to becoming discerning participants in contemporary culture. The faculty and staff, an on-site museum and gallery space, regular lectures and exhibits by visiting artists, a dedicated community-based arts council, off-campus study opportunities, and the vibrant art scene in Santa Barbara, all make this a rich community for students interested in learning through the visual arts.

***O*ff-Campus Programs**. The art department recognizes the importance of off-campus educational experiences. Art majors are strongly encouraged to experience the diversity and cultural impact of studying in another country or in another setting. The Art Department endorses four off-campus programs: Westmont in San Francisco; IAU Aix-en-Provence, Studio Art Centers International in Florence, Italy; Gordon College's program in Orvieto, Italy. Students who want to pursue an off-campus semester during their sophomore or junior year must begin the application process one year in advance of the intended study opportunity. Senior Art majors are required to be on campus their entire senior year for the year-long course progression of Senior Seminar

and Senior Project. Each student is encouraged to meet with his or her advisor and the Office of Off-Campus Programs for planning assistance.

Career Choices. One of the goals of Westmont's art program is to guide students in becoming artists of integrity. Westmont's art program has been instrumental in directing students to specific careers as artists, art historians, and art teachers. With additional training, our majors are able to pursue careers in graphic design, illustration, interior design, museum work, the academy and many other specialties. Potential employers appreciate the creative problem-solving skills that art majors develop and nurture during their course of study at Westmont. The flexibility, intellectual engagement, reasoning, and risk-taking attributes inherent in art training provide a solid basis for employment in numerous professional fields.

Students wishing to teach at the high school level or junior high level are encouraged to consult with faculty advisors in the Department of Education as early in their undergraduate program as possible, as well as with their departmental advisor. Students wishing to complete the secondary education credential program are also urged to make use of the advising materials available on the departmental webpage.

Requirements for a Major: 57-61 Units

Studio Art: 57 Units

Required Basic Core: 41 units

ART 010 2-D Design (4)
ART 015 Drawing I (4)
ART 065 Digital Tools (4)
ART 070 3-D Sculptural Explorations (4)
ART 093 Sophomore Project (1)
ART 111 4-D Intermedia (4)
ART 115 Figure Drawing (4)
ART 128 Modern and Contemporary Art (4)
ART 131 Theory and Criticism in the Arts (4)
ART 193 Senior Project (2)
ART 195 Senior Seminar (2)
One of the following: (4)
ART 021 Art History: Prehistoric to Gothic (4)
ART 022 Art History: Renaissance to Modern (4)

Studio Electives from the following: 16 units

ART 001 Principles of Art (4)
ART 029 Studio Art Topics (4)
ART 040 Ceramics I (4)
ART 041 Interpretive Crafts I (4)
ART 045 Photography I (4)
ART 050 Painting I (4)
ART 061 Intaglio/Relief Printmaking I (4)

At least one of which must be upper division
ART 140 Ceramics II (4)
ART 141 Interpretive Crafts II (4)
ART 145 Photography II (4)
ART 150 Painting II (4)
ART 151 Illustration (4)
ART 161 Intaglio/Relief Printmaking II (4)
ART 162 Screen Printing (4)
ART 163 Typography (4)
ART 165 Digital Painting (4)
ART 167 Publication Design (4)

Graphic Arts: 61 Units

Required Basic Core: 45 units

ART 010 2-D Design (4)
ART 015 Drawing I (4)
ART 065 Digital Tools (4)
ART 093 Sophomore Project (1)
ART 111 4-D Intermedia (4)
ART 128 Modern and Contemporary Art (4)
ART 131 Theory and Criticism in the Arts (4)
ART 162 Screen Printing (4)
ART 163 Typography (4)
ART 167 Publication Design (4)
ART 193 Senior Project (2)
ART 195 Senior Seminar (2)
One of the following: (4)
    ART 021 Art History: Prehistoric to Gothic (4)
    ART 022 Art History: Renaissance to Modern (4)

Electives from the following: 16 units

ART 045 Digital Photography (4)
ART 050 Painting I (4)
ART 061 Relief/Intaglio Printmaking I (4)
ART 070 3-D Sculptural Explorations (4)
ART 115 Figure Drawing (4)
ART 145 Film Photography (4)
ART 150 Painting II (4)
ART 151 Illustration (4)
ART 161 Relief/Intaglio Printmaking II (4)
ART 165 Digital Painting (4)
EB 160 Principles of Marketing (4)
FLM 030 Introduction to Digital Filmmaking (4)

Preparation for Teaching Art

Students wishing to teach art at the elementary or secondary level should follow the requirements for the Studio Art major above. In addition, in order to complete a fifth-year Credential Program at Westmont, students should also complete four or more of the following prior to applying to the program.

1. KNS 156 Health Education for the Classroom Teacher (2)
2. ENG 106 Language Acquisition (4)
3. ED 101 Explorations in Teaching: Culturally Diverse Secondary Schools (4)
4. ED 105 Perspectives on Cultural Diversity and Education (4)
5. ED 130 Special Education for the Classroom Teacher (2)
6. ED 161 Technology for the Classroom Teacher: Secondary (2)

In many cases, it is possible to complete requirements for the major and the Westmont Credential Program in four years. Such a "fast-track" program requires early planning.

All students wishing to explore secondary teaching are strongly encouraged to consult with faculty advisors in the Department of Education as early in their undergraduate program as possible, in addition to their major advisor.

Requirements for Studio Art Minor: 25 units

Required Basic Core: 13 units

ART 010 2-D Design (4)
ART 015 Drawing I (4)
ART 093 Sophomore Project (1)

One of the following: (4)

ART 021 Art History: Prehistoric to Gothic (4)
ART 022 Art History: Renaissance to Modern (4)
ART 023 Introduction to World Art (4)
ART 124 Italian Renaissance Art (4)
ART 128 Modern and Contemporary Art (4)
IS 123, 126, or 128 Europe Semester (4)

Elective Courses: (at least 12 units)

ART 001 Principles of Art (4)
ART 029 Studio Art Topics (4)
ART 040 Ceramics I (4)
ART 041 Interpretive Crafts I (4)
ART 045 Photography I (4)
ART 050 Painting I (4)
ART 065 Digital Tools (4)
ART 070 3-D Sculptural Explorations (4)
ART 111 4-D Intermedia (4)
ART 115 Figure Drawing (4)
ART 140 Ceramics II (4)
ART 141 Interpretive Crafts II (4)
ART 145 Photography II (4)
ART 150 Painting II (4)
ART 151 Illustration (4)

ART 161 Intaglio/Relief Printmaking (4)
ART 162 Screen Printing (4)
ART 163 Typography
ART 165 Digital Painting (4)
ART 167 Publication Design (4)
ART 180 Art for Children (4)

Requirements for Art History Major: 45 units

Required Basic Core: 13 units

ART 010 2-D Design (4)
ART 015 Drawing I (4)
ART 093 Sophomore Project (1)
ART 131 Theory and Criticism in the Arts (4)

History Cognate: 4 units

One of the following: (4)
HIS 099 Foundations of History (4)
HIS 198 Senior Research Seminar (4)

Lower Division Electives: 8 units

Two of the following: (8)
ART 021 Art History: Prehistoric to Gothic (4)
ART 022 Art History: Renaissance to Modern (4)
ART 023 Introduction to World Art (4)
IS 123, 126, or 128 Europe Semester (4)

Upper Division Electives: 20 units

At least five of the following: (20)
ART 124 Italian Renaissance Art (4)
ART 126 Seventeenth Century Art (4)
ART 127 Nineteenth Century Art (4)
ART 128 Modern and Contemporary Art (4)
ART 129 Special Topics in the History of Art (4)
ART 132 Museum Studies (4)
ART 133 Art, Theology and Worship (4)
ART 134 Land into Landscape: The Anthroposcenic Imagination (4)

Requirements for Art History Minor: 24 units

Two of the following: (8)
- ART 021 Art History: Prehistoric to Gothic (4)
- ART 022 Art History: Renaissance to Modern (4)
- ART 023 Introduction to World Art (4)
- IS 123, 126, or 128 Europe Semester (4)

Four of the following: (16)
- ART 124 Italian Renaissance Art (4)
- ART 126 Art of Early Modern Europe (4)
- ART 127 Nineteenth Century Art (4)
- ART 128 Modern and Contemporary Art (4)
- ART 129 Special Topics in the History of Art (4)
- ART 131 Theory and Criticism in the Arts (4)
- ART 132 Museum Studies (4)
- ART 133 Art, Theology and Worship (4)
- ART 134 Land Into Landscape: The Anthroposcenic Imagination (4)

Lower-Division Course Descriptions

Prerequisites MAY be waived in some lower-division ART courses for those students who desire a studio experience but have not had foundational art courses at Westmont. Students who do not meet prerequisite requirements MAY be allowed to register for a class if they obtain consent of the instructor and the instructor's signature on a registration form or add/drop form.

ART 001 Principles of Art (4) A foundational course in the study of the basic elements of art (line, shape, color, value, texture, space) and art styles through formal analysis and their relationship to intellectual, aesthetic, and historical engagement. Includes a comprehensive hands-on studio component. Recommended for non-majors.

ART 010 2-D Design (4) A study of the application of the formal principles and elements of 2-D design through the process of problem solving. Intense investigation in looking, seeing and making.

ART 015 Drawing I (4) A study in the process of drawing using a variety of media in specific assignments. Emphasis is placed on learning to see, and the development of technical and interpretive skills.

ART 021 Art History: Prehistoric to Gothic (4) An investigation of development of architecture, sculpture, and two-dimensional imagery in the Mediterranean Basin and Europe from pre-historic through the Middle Ages, with particular attention to the ethical issues raised by the interpretive methods--archaeological, anthropological and art-historical--used to understand their use and significance.

ART 022 Art History: Renaissance to Modern (4) An investigation of European and New World painting, sculpture and architecture with particular attention to the development of Western notions of "artist," "art," and "the aesthetic," the corresponding emergence of the discipline of art history, and the ways in which that history enables and limits artistic practice.

ART 023 Introduction to World Art (4) A comparative study of the forms and cultural contexts of architecture, sculpture, painting, metalwork, ceramics, and performances from Asia, Africa, Oceania and the Americas, with particular attention to how conventional, Western art historical frameworks and methods serve, or fail to serve, an ethical understanding of non-Western objects.

ART 029 Studio Art Topics (4) Various courses in specific media/technique explorations; offered intermittently. See professors for upcoming offerings.

Upper-Division Course Descriptions

ART 111 4-D Intermedia (4) Prerequisite: ART 010. Intermediate and advanced 4-D design problems, including time-based media, performance, video/sound and other interdisciplinary mediums.

ART 115 Figure Drawing (4) Prerequisite: ART 015. Advanced drawing problems for the serious visual art student. Emphasis on composition, development of technical abilities, and conceptual growth with focus placed on drawing the human figure. A requirement for art majors; the course may be repeated once for elective credit.

ART 124 Italian Renaissance Art (4) Prerequisite: ART 021, 022, or 023. A study of the painting, sculpture and architecture of Italy from the 14th to the 16th centuries. This course is designed to help students understand why the arts of the Italian Renaissance have become the basis of the artistic tradition of the West.

ART 126 Seventeenth Century Art (4) Prerequisite: ART 021, 022, or 023. A study of the arts of 17th century Europe, with particular emphasis on Italy, Spain, and the Low Countries. A major theme concerns the role played by the visual arts in developing ideas of absolute monarchy, and in facilitating European expansion.

ART 127 Nineteenth Century Art: Origins of Modernism (4) Prerequisite: ART 021, 022, or 023. An art historical investigation of shifting styles and understandings of art from the late 18th to the 19th century, with an emphasis on painting in Paris and the emergence of "modernism" in that milieu.

ART 128 Modern and Contemporary Art (4) Prerequisite: ART 021, 022, or 023. A study of art from the early 20th century to the early 21st century, with an emphasis on the social and intellectual institutions that have defined the parameters, uses and values we ascribe to the arts in contemporary culture.

ART 129 Special Topics in the History of Art (4) Prerequisite: ART 021, 022, or 023. An historical investigation of a specific art issue, artist, or monument, chosen by the professor. This course may be repeated for credit.

ART 131/PHI 131 Theory and Criticism in the Arts (4) An exploration into theories in the arts (including theatre, music, and the visual arts) with an emphasis on the historical trajectory of these theories in the West, and a critical examination of their relevance for contemporary arts criticism.

ART 132 Museum Studies (4) An introduction to museums, galleries, historic sites, and other cultural institutions that interpret and exhibit material culture. Readings and field trips will expose students to the history of museums with in-depth discussions about the changing role of museums in contemporary culture. Students will receive

practical experience in the day to day operations of museums from planning an exhibition schedule to the proper identification and handling of objects.

ART 133/RS 133 Art, Theology and Worship (4) Recommended: RS 020. A study of the arts in Christian worship with a particular emphasis on the visual arts. Within a broadly historical framework, this course invites students to consider the roles that the arts have played in worship, to understand the range of theological and doctrinal understandings that have been used to interpret and support their use, and to become sensitive to the social and economic circumstances that are also involved.

ART 134 Land into Landscape: The Anthroposcenic Imagination (4) A study of the rise, development, and function of landscape imagery in the west, with an emphasis on the reciprocity between vision and culture. Non-western landscape traditions, while not the primary focus of the course, are introduced in order to further understand, via comparison, the nature of the tradition that has powerfully shaped the western sense of both "land" and "landscape."

ART 163 Typography (4) Prerequisite: ART 065. An introductory course exploring both the history and basic principles of typographic design. Students will review the history and evolution of typefaces, as well as identifying type, specifying type within graphic design layouts and becoming familiar with typographic terminology. The course will focus on techniques and ideas that influence meaning through the visual design of letterforms and words. Emphasis will be placed on the exploration of digital typography.

ART 180 Art for Children (4) Priority given to liberal studies majors. This course provides ideas and tools for instruction in art for prospective elementary school teachers. Students develop a continuum of lessons to enhance a child's understanding of line, color, space, form, and texture, as well as the implementation of The California State Visual Arts Standards.

ART 190 Art Internship (1) A specifically school-site-related experience for Art 180 students.

ART 193 Senior Project (2) Prerequisite: Senior standing. Advanced study in applied art culminating in a public exhibition.

ART 195 Senior Seminar (2) Prerequisite: Senior standing and ART 193. A capstone course for the major involving advanced study, reading and research in a selected topic related to the student's emphasis. Additional supportive topics for discussion, implementation, and preparation for the culminating public exhibition are included.

Applied Art—Lower-Division Course Descriptions

ART 040 Ceramics I (4) An introduction to clay, glazes, firing, and studio procedures through the production of varied hand-built and wheel-thrown projects. Emphasis is on basic and classic forms.

ART 045 Photography I (4) Prerequisite: ART 001 or ART 010 or ART 015. This course is intended to provide a basic introduction to the art of photography. Emphasis will be placed on operating the digital camera, and mastering compositional design. There are no darkroom projects in the class. A digital single-lens reflex camera is required.

ART 050 Painting I (4) Prerequisite: ART 010 or ART 015. An introduction to the materials and processes of oil painting. Representational and investigations are emphasized.

ART 061 Intaglio/Relief Printmaking I (4) Prerequisite: ART 010 or ART 015. An introduction to matrix based art making. Students will explore relief and intaglio processes focusing on the practices and skills unique to the discipline.

ART 065 Digital Tools (4) An introduction to computer graphics and foundational digital skills for the contemporary artist, using the Macintosh OS X system. Programs covered include Adobe Illustrator, Photoshop, InDesign and Keynote. Lecture and lab time comprise the course. ART 10 or basic design background is helpful but not required.

ART 070 3-D Sculptural Explorations (4) This course investigates contemporary sculpture using studio projects, readings, and discussion. Investigations include work with wood, metal, foam, found objects, and other materials, as well as an exploration of methods for critically evaluating art objects--both conceptual and figurative.

ART 093 Sophomore Project (1) Prerequisite: Sophomore standing. An independent project designed to prepare students for the senior project. Successful completion of this project, before the senior year, constitutes commitment and stability in the major.

Applied Art—Upper-Division Course Descriptions

ART 140 Ceramics II (4) Prerequisite: ART 040. Intermediate and advanced work in clay, glazes, firing, and studio procedures through the production of varied hand-built and wheel-thrown projects.

ART 145 Photography II (4) Prerequisite: ART 045. A continued study of the art of photography. Emphasis will be in B/W film and B/W wet printing. The class will introduce darkroom techniques, while fine-tuning technical camera skills and composition. Single-lens reflex film camera required.

ART 150 Painting II (4) Prerequisite: ART 050. Intermediate-level painting study. Emphasis on personal growth, development of technical ability, and conceptual awareness. Experimental representational perspectives are offered.

ART 151 Illustration (4) Prerequisites: ART-010 or ART 015, or permission of instructor. Advanced studio course dedicated to the applied art of illustration. Projects will encompass a range of approaches and media to connect conceptual thinking to visual metaphorical solutions. Emphasis on development of advanced drawing and compositional skills as well as student's personal artistic voice.

ART 161 Intaglio/Relief Printmaking II (4) Prerequisite: ART 010 or ART 015. A focus on matrix based art making. Students will explore relief and intaglio processes focusing on the practices and skills unique to the discipline.

ART 162 Screen Printing (4) Prerequisite: ART 010 or ART 015. An introduction to the technique and art form of non-toxic screen printing. Students will produce a cohesive body of work for discussion and display.

ART 165 Digital Painting (4) Prerequisite: ART 065. Recommended: ART 015. Intermediate and advanced projects in digital painting and imaging.

ART 167 Publication Design (4) Prerequisite: ART 065. An introduction to the fundamentals of graphic design using the page-layout program Adobe InDesign, in addition to Photoshop and Illustrator. Emphasis will be on software mastery, typography, page design, and pre-press. Students will complete several projects including brochures, posters and book design. Understanding the process of taking a project from concept to finished printed piece will be a key goal.

Biology

Professors S. Julio (chair), E. McQuade, A. Sparkman
Associate Professors B. Horvath, Y. Lu
Assistant Professors N. Marsh, L. Schultheis

Description of the Major. The Biology major at Westmont equips students for the rewarding and challenging professions related to laboratory, environmental, and medical studies. It also cultivates the knowledgeable care and appreciation of the living world as a means of developing a fuller appreciation of God.

There are several components of the Biology program: a schedule of required and elective coursework emphasizing biological concepts at the molecular, cellular, organismal, and ecosystem levels; a laboratory program involving student investigations with opportunities for individual laboratory or field research; and a senior seminar series in which each student develops skills within a topic in the biological literature and on an issue of bioethics.

The Biology program emphasizes conceptual understanding, laboratory techniques, field methods, written and oral communication skills, competency in information processing and computer analysis, and informed sensitivity to issues involving biology, ethics, culture, and faith.

Several options are available within the major. The B.A. is designed for those choosing a biology major who wish to maintain a high level of involvement in other disciplines. The B.A. in Biology is common for those entering the health sciences, and for those double-majoring.

The biology department offers four options leading to a bachelor of science degree in biology: a general track providing a comprehensive introduction to all areas of biology; a more specialized track emphasizing cellular and molecular biology; a track emphasizing ecology, evolution, and natural history; and a genomics and bioinformatics track emphasizing genomics, bioinformatics tools, and computational biology. Each track is comprised of lower-division courses in biology, mathematics, and physical sciences, plus a variety of required and elective upper-division courses.

Additional information about the major or the premedical program is available on the Biology web site, www.westmont.edu/biology.

Distinctive Features. The traditional disciplinary content is enhanced by discussion of ethical and social implications of biology (e.g. genetic engineering and biomedical ethics, world hunger and environmental stewardship, human nature and origins). Students are provided the personal support and intellectual tools necessary to develop mature and reasoned approaches to relating scientific and scriptural perspectives on these and other emerging issues.

Students have the opportunity to engage in laboratory and field research, and internships under the supervision of faculty or associated personnel. These opportunities include research laboratories at the College, field study in the region and/or internships in local medical clinics , the Santa Barbara Zoo, Museum of Natural History and Botanic Garden, among other places.

Students in the Biology program have direct access to contemporary instrumentation for studies in physiological ecology, environmental biophysics, molecular biology, cell biology, immunology, physiology, biochemistry and computational biology. These

instruments are used throughout one's upper-division coursework, and may be used for individual and directed study.

Nearby resources for field biology include the Los Padres National Forest, and Channel Islands National Park and Marine Sanctuary, along with local marine, river, and lake habitats. Desert, alpine, and coniferous forest ecosystems are within driving distance. Students may also take ecological coursework in the Pacific Northwest or, Michigan northwoods, through the Au Sable Institute for Environmental Studies, or in the Creation Care Studies Program (CCSP) in Belize or New Zealand. Westmont's Global Health in Uganda program provides undergraduate students in health-related disciplines the opportunity to complete global health coursework and to participate in an international field internship in Uganda. Recent internship locations include local hospitals, clinics, child development centers, and public health organizations. Additional opportunities for an off-campus semester are available through the College, and can be planned into the schedule of any track within the Biology major.

Career Choices. Some of the fields recent biology students have entered include medicine, dentistry, veterinary medicine, law, biotechnology, graduate study, teaching at secondary and collegiate levels, physician assistant, public health, nursing, third-world development, agriculture, environmental monitoring, laboratory research, environmental education, pharmacology, fisheries industry, occupational therapy, and full-time missionary work.

Requirements for a B.A. Major: 48-50 units

The bachelor of arts major in biology consists of lower- and upper-division course work in biology and supporting physical sciences and mathematics. The program is designed for students who wish to obtain a strong preparation in biology, while also obtaining a broader exposure to courses outside the major than is generally possible with a bachelor of science degree.

Required Lower-Division Courses: 20-22 units

BIO 005, 006 General Biology I, II (4,4)
MA 005 Introduction to Statistics (4)
Additional courses to be chosen from the following (8-10):
CHM 005, 006 General Chemistry I, II (4,4)
MA 009, 010 Calculus I, II (4,4)
MA 015 Discrete Mathematics (4)
PHY 011, 013 Physics for Life Sciences I, II (4,4)
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)

Required Upper-Division Courses: 20 units

BIO 114 Genetics (4)
At least three additional upper-division biology lab or field courses (12)
One of the following: (4)
Upper-division BIO Elective (4)
CHM 101, 102 Organic Chemistry I, II (4,4)
PSY 125 Behavioral Neuroscience (4)

Additional Courses, either Lower- or Upper-Division: 8 units

Courses in the natural sciences chosen from the BIO listings or from the courses listed above.

Integrative Course

One course, included among the above requirements, which integrates biology with theological and ethical issues. Courses offered by the department which satisfy this requirement are:

BIO 196 Bioethics Seminar (1)
BIO 197 Biology and Faith (4)

Requirements for a B.S. Major: 64 units

The biology department offers three options leading to a bachelor of science degree in biology—a general track providing a comprehensive introduction to all areas of biology, a more specialized track emphasizing cellular and molecular biology and a track emphasizing ecology, evolution, and natural history. Each track is comprised of lower-division courses in biology, mathematics, and physical sciences, plus a variety of required and elective upper-division courses.

General Biology Track: 64 units

Supporting Science Courses: 20 units

CHM 005, 006 General Chemistry I, II (4,4)
MA 005 Introduction to Statistics (4)
Additional courses: (8)
CS 010 Introduction to Computational Problem Solving (4)
OR
Additional courses in chemistry, mathematics, or physics *(Excluding CHM 004, MA 002, and MA 008)*

Required Biology Courses: 26-29 units

BIO 005, 006 General Biology I, II (4,4)
BIO 114 Genetics (4)
One course from each of the following three areas: (12)
Cellular and Molecular Biology
BIO 113 Biochemistry (4)
BIO 117 Genomics and Bioinformatics (4)
BIO 130 Cell Biology (4)
BIO 132 Molecular Biology (4)

Organismal Biology
BIO 102 Physiology (4)
BIO 108 Animal Diversity (4)
BIO 110 Microbiology (4)
BIO 141 Herpetology/Ornithology (4)
BIO 142 Marine Mammal Ecophysiology (4)
BIO 151 Plant Classification and Biodiversity (4)
Population Biology
BIO 104 Marine Biology (4)
BIO 120 Behavioral Ecology (4)
BIO 125 General Ecology (4)
BIO 126 Animal Ecology (4) (Au Sable)
BIO 131 Evolution (4)
BIO 151 Plant Classification and Biodiversity (4)
Regional ecosystem courses (various off-campus programs)

One course from the following: (1-4)
BIO 195 Seminar in Biological Literature (1)
BIO 199 Major Honors (4)

One integrative course from the following: (1-4)
BIO 196 Bioethics Seminar (1)
BIO 197 Biology and Faith (4)

Major electives from the following for a total of 64 units: 15-18 units

Upper-division BIO
Upper-division CHM
MA 009, 010 Calculus I, II (4, 4)
MA 015 Discrete Mathematics (4)
PHS 114 Earth Science (4)
PSY 125 Behavioral Neuroscience (4)

No more than 12 units to be selected from physical sciences or math.

No more than 2 units of Practicum, BIO 190, 191, or 192.

No more than 4 units Research, BIO 098/198.

Cellular and Molecular Biology Track: 64 units

Supporting Science Courses: 28 units

CHM 005, 006 General Chemistry I, II (4,4)
CHM 101, 102 Organic Chemistry I, II (4,4)
MA 005 Introduction to Statistics (4)
Additional courses: (8)
CS 010 Introduction to Computational Problem Solving (4)
OR
Additional courses in chemistry, mathematics, or physics *(Excluding CHM 004, MA 002, and MA 008)*

Required Biology Courses: 30-33 units

BIO 005, 006 General Biology I, II (4,4)
Upper-division Biology Laboratory Courses (20)
BIO 113 Biochemistry (4)
BIO 114 Genetics (4)
BIO 130 Cell Biology (4)
BIO 132 Molecular Biology (4)
One course from the following: (4)
BIO 102 Physiology (4)
BIO 110 Microbiology (4)
BIO 117 Genomics and Bioinformatics (4)
BIO 131 Evolution (4)
One course from the following: (1-4)
BIO 195 Seminar in Biological Literature (1)
BIO 199 Major Honors (4)
One integrative course, from the following: (1-4)
BIO 196 Bioethics Seminar (1)
BIO 197 Biology and Faith (4)

Additional courses from the following for a total of 64 units: 3-6 units

Upper-division BIO
Upper-division CHM
MA 009, 010 Calculus I, II (4, 4)
MA 015 Discrete Mathematics (4)
PSY 125 Behavioral Neuroscience (4)

No more than 4 units to be selected from physical sciences or math.

No more than 2 units of Practicum, BIO 190, 191, or 192

No more than 4 units Research, BIO 098/198

Ecology, Evolution and Natural History Track: 64 units

Supporting Science Courses: 20 units

CHM 005, 006 General Chemistry I, II (4,4)
MA 005 Introduction to Statistics (4)
Additional courses in physical or other cognate sciences (8) to be selected from the following:
CHM 101, 102 Organic Chemistry I, II (4,4)
ENV 001 Introduction to Environmental Studies (4)
MA 009, 010 Calculus I, II (4,4)
MA 015 Discrete Mathematics (4)
PHY 011, 013 Physics for Life Sciences I, II (4,4)
PHY 021, 023 General Physics I, II (4,4)
Other environmental courses offered at Westmont field programs (*e.g., Environmental Applications for GIS,* Environmental Chemistry, International Development, and Environmental Sustainability)

Required Biology Courses: 38-41 units

BIO 005, 006 General Biology I, II (4,4)
BIO 114 Genetics (4)

BIO 125 General Ecology (4)
BIO 131 Evolution (4)
One of the following courses: (4)
BIO 102 Physiology (4)
BIO 110 Microbiology (4)
BIO 132 Molecular Biology (4)
BIO 142 Marine Mammal Ecophysiology (4)
Molecular Tools for the Field Biologist (Au Sable)

Three Field Courses: (12)

At least one course must be taken from each of the following three areas. Courses listed include Westmont courses that would meet the requirement as well as representative courses of those offered at field stations with which our program has affiliation. No more than two upper division courses may be taken for credit toward the major at off-campus field programs.

Plant Systematics or Field Studies
BIO 151 Plant Classification (4)
Woody Plants, Field Botany or Forest Ecology (Au Sable)
Animal Systematics or Field Studies
BIO 108 Animal Diversity (4)
BIO 141 Ornithology/Herpetology (4)
BIO 142 Marine Mammal Ecophysiology (4)
Marine Mammals, Animal Ecology, Field Ecology of Birds, or Insect Ecology (Au Sable)
Upper Division Field Course
BIO 104 Marine Biology (4)
BIO 120 Behavioral Ecology (4)
Aquatic Biology, Alpine Ecology, Conservation Biology, Restoration Ecology, Limnology, Ecological Agriculture (Au Sable) or other upper-division field courses, excluding those that satisfy the Plant or Animal Systematics courses listed above

Courses at a Biological Field Station

Two courses (but not more than two) for the major must be taken in residence at a biological field station.

One course from the following: (1-4)
BIO 191 Environmental Practicum (1)
BIO 195 Seminar in Biological Literature (1)
BIO 098/198 Research (1)
BIO 199 Major Honors (4)

One integrative course from the following: (1-4)
BIO 196 Seminar in Bioethics (1)
BIO 197 Biology and Faith (4)

Additional courses chosen from the following for a total of 64 units: (3-6 units)

Upper-division BIO
Upper-division CHM
MA 009, 010 Calculus I, II (4,4)
MA 015 Discrete Mathematics (4)
PSY 125 Behavioral Neuroscience (4)

No more than 2 units of Practicum, BIO 190, 191, or 192
No more than 4 units Research, BIO 098/198

Genomics and Bioinformatics Track: 64 units

Supporting Science Courses: 36 units

CHM 005, 006 General Chemistry I, II (4,4)
CS 010 Introduction to Computational Problem Solving (4)
CS 030 Introduction to Object Oriented Data Structures (4)
MA 005 Introduction to Statistics (4)
MA 009 Calculus I (4)
MA 015 Discrete Mathematics (4)
Additional courses in physical or other cognate sciences (8) to be selected from the following:
- CHM 101, 102 Organic Chemistry I, II (4,4)
- CS 116 Artificial Intelligence (4)
- CS 128 Information Retrieval and Big Data (4)
- ENV 001 Introduction to Environmental Studies (4)
- MA 010 Calculus II (4)
- MA 019 Multivariable Calculus (4)
- MA 040 Differential Equations with Linear Algebra (4)
- PHY 011 Physics for Life Sciences I (4)
- PHY 013 Physics for Life Sciences II (4)
- PHY 021 General Physics I (4)
- PHY 023 General Physics II (4)

Required Biology Courses: 24 units

BIO 005, 006 General Biology I, II (4,4)
Upper-division Biology Laboratory Courses (12)
- BIO 114 Genetics (4)
- BIO 117 Genomics and Bioinformatics (4)
- BIO 131 Evolution (4)

One of the following courses: (4)
- BIO 110 Microbiology (4)
- BIO 113 Biochemistry (4)
- BIO 130 Cell Biology (4)
- BIO 132 Molecular Biology (4)

One integrative course from the following: (1-4)
- BIO 196 Bioethics Seminar (1)
- BIO 197 Biology and Faith (4)

Additional courses from the following for a total of 64 units: 4-9 units

Upper-division BIO
Upper-division CS
Upper-division MA
No more than 2 units of Practicum: BIO 190, 191, or 192
No more than 4 units of Research: BIO 198 or CS-198

Requirements for a Minor: 20 units

BIO 005, 006 General Biology I, II (4,4)
Upper-division BIO Electives (12)

Lower-Division Course Descriptions

BIO 005 General Biology I (4) Prerequisite: CHM 005. Corequisite CHM 006. Fundamental principles of the living world, including cell structure and metabolism; Mendelian and modern genetics; anatomy and physiology of vascular plants; topical bioethics and origin of life theories. Lab exercises reinforce classroom topics and culminate in independent projects based on techniques mastered during the semester.

BIO 006 General Biology II (4) Prerequisite: BIO 005, CHM 005, and CHM 006. Survey of the anatomy and physiology of animals with an emphasis on vertebrates; population; community and global ecology; population genetics; evolutionary theory and its theological implications. The laboratory explores the diversity of animal taxa and habitats, animal evolutionary history, and culminates with a formal debate on topics related to the spectrum of viewpoints on the mechanisms that explain the origins and diversity of the natural world.

BIO/KNS 011 Human Anatomy (4) Not for credit toward the B.S. in Biology. A systems approach to the study of tissues and organ systems that make up the human body. An emphasis is given to skeletal muscle. Course is designed with careers such as Nursing, Physical Therapy, and Sports Medicine in mind. Lab required.

BIO/KNS 012 Human Physiology (4) Not for credit toward the B.S. in biology. Functional characteristics and interrelationships of the organ systems of the human body. Lab required.

BIO/KNS 040 Human Nutrition (4) Not for credit toward the B.S. in biology. Role of nutrients in human growth, development, and maintenance, including the chemistry and metabolism of carbohydrate, fat, and protein and the role of vitamins and minerals. The principles of energy balance, essentials of an adequate diet throughout the life cycle, and nutritive values of foods. Nutrition concepts applied to current nutrition issues and controversies (taught without laboratory).

BIO 098 Research (1-4) Lower-division laboratory and/or field research with a faculty member. Students will typically collect data, analyze the data, and present written and/or oral presentations based on their work.

Upper-Division Course Descriptions

BIO 102 Physiology (4) Prerequisite: MA 005 and BIO 114. An examination of the mechanisms that determine the function of the human body, from various degrees of organization, including the molecular, cellular, tissue, organ, and organ systems levels. Fundamental physiological processes that underlie all the body's activities are reinforced in a laboratory component that allows students to examine cardiovascular, lung, endocrine, and kidney function, culminating in a student-designed and implemented independent project.

BIO 104 Marine Biology (4) Prerequisites: BIO 005 and 006. Recommended: BIO 125. An overview of marine zoology, ecology, biogeography, island biology and diversity, with an emphasis on biotic and abiotic features of the southern and central California marine environments. Both in-house labs and field experiences are incorporated, involving day travel to southern and central California coastal areas. The course culminates in students either developing a field research project, or critiquing a peer-reviewed research article.

BIO/CS 106 Computational Biology (4) Prerequisite: CS 010 or consent of instructor. A college-level course on biology, physics, or chemistry is recommended. This course offers a range of topics on computational biology, including: an introduction to protein structures, protein structure representations, structure geometry and symmetry, computational analysis of protein sequences and structures, mutations, sequence structure relationships, comparison of structures, visualization and modeling, structure prediction, protein fold classification using basic machine learning, protein-protein interactions, coarse-grain modeling of proteins, and molecular dynamics simulations, etc.

BIO 108 Animal Diversity (4) Prerequisite: BIO 006. Recommended: BIO 114. Exposes students to the diversity of animal life on the planet, emphasizing the adaptive nature of diversity through structure, function and life history, and will expose students to the issues of field research involving animal subjects. Major emphases are placed on Animal Behavior, Conservation Biology, and Wildlife Management. The course culminates with students completing research and writing a literature review paper.

BIO 110 Microbiology (4) Prerequisites: MA 005 and BIO 114. Recommended: CHM 101, 102 and BIO 113. Introduction to the biology of prokaryotic microorganisms and their viruses. The course surveys prokaryotic cell biology, population growth and its control by physical and biological factors, and the prokaryotic groups associated with important microbial habitats, including the normal microflora of the human body. Laboratory work emphasizes techniques for isolating, identifying, and characterizing the activities of bacteria in natural environments.

BIO 113 Biochemistry (4) Prerequisites: BIO 005, CHM 101, and CHM 102. Introduction to metabolism through a consideration of protein structure-function relationships, enzyme action and regulation, and catabolic and anabolic pathways, emphasizing the metabolism of carbohydrates. Laboratory work emphasizes enzyme isolation and characterization.

BIO 114 Genetics (4) Prerequisites: BIO 005, and BIO 006. Introduction to genetic analysis, emphasizing the physical basis for patterns of heredity in eukaryotes and prokaryotes, gene structure and function, cytogenetics, quantitative inheritance, and population genetics. Laboratory research and scientific writing is emphasized.

BIO 117 Genomics and Bioinformatics (4) Prerequisites: MA 005 and BIO 114. Genomics is one of the most rapidly growing fields in contemporary biological sciences. The recent advancement in molecular biology and next-generation sequencing have enabled the unprecedented power for scientists to investigate the cause of human genetic diseases and design treatments based on the knowledge. In this course, topics in modern human genomics research, human genome architecture, disease modeling, personalized medicine, and ethical issues will be discussed. Students will develop an in-depth understanding and appreciation of the human genome and the applications of the genomic technologies. Besides the lecture and exams, hands-on bioinformatics tool practices, presentation, and article writing will also be included. These activities will be especially instrumental for students who are planning to pursue a career related to healthcare or biomedical research.

BIO 120 Behavioral Ecology (4) Prerequisites: MA 005, BIO 005, and BIO 006. Explores how animal behavior evolves to maximize fitness in particular ecological contexts. Covers topics related to foraging, signals, coevolution, sexual selection, mating systems, parental care and group living, introducing basic principles of optimality theory, game theory and the comparative method. Involves field-based labs, independent research projects, and interdisciplinary discussion of historical, philosophical, and theological issues that arise in the study of both human and animal behavior.

BIO 123 Aquatic Biology (4) Ecology, identification, systematics, culture, and care of aquatic plants and animals, and adaptations to freshwater environments. Human impacts on aquatic species and ecosystems, stewardship of aquatic habitats, and aquatic restoration ecology. Fieldwork in lakes, ponds, bogs, marshes, and streams. (Offered summers at the Au Sable Institute.)

BIO 125 General Ecology (4) Prerequisite: MA 005, BIO 005, and BIO 006. An overview of organism/environment interactions at the physiological, population and community levels. Entails biostatistics, a field research project, and consideration of issues in human ecology and environmental stewardship.

BIO 126 Animal Ecology (4) Interrelationships between animals and their biotic and physical environments, emphasizing behavioral aspects. A field course that centers on the ecology of northern Michigan fauna from a stewardship perspective. Included are individual student research projects. (Offered summers at the Au Sable Institute.)

BIO 130 Cell Biology (4) Prerequisite: MA 005 and BIO 114. Cell biology is the study of the structures and functions which define cells. The course examines the components and properties of the cell membrane, subcellular organelles, and cytoskeleton and explores basic principles of intra- and inter-cellular communication. Students also learn about development and stem cell biology and discuss ethical implications. In lab, the 2nd half of the semester culminates in independent research projects and presentations.

BIO 131 Evolution (4) Prerequisites: MA 005 and BIO 114. Explores the full range of fundamental topics in evolutionary biology, from mechanisms of selection and drift, to pattern and process in macroevolution. Covers key evolutionary themes, such as the evolution of sex, optimization of life-history strategy, evolutionary developmental biology, and evolutionary medicine. Gives substantial attention to critical thinking in both theoretical and empirical contexts, and fosters the development of basic skills in molecular phylogenetics. Also explores key historical, philosophical, and religious aspects of evolutionary theory.

BIO 132 Molecular Biology (4) Prerequisites: MA 005 and BIO 114. A detailed examination of the central dogma of molecular biology (DNA to RNA to protein), including DNA replication, transcription, translation, DNA transposition, and non-coding RNA. Gene regulation is covered at the transcriptional, post-transcriptional, and epigenetic level. The course also features a survey of the genomics revolution and its application to human health. Students complete a semester-long project in laboratory utilizing techniques commonly used in the field, including PCR, cloning, gene expression analysis, Western blotting, and animal models of microbial infection.

BIO 135 Conservation Biology (4) Principles of conservation biology with applications to sustainable human society and biospheric integrity. Integrative relationships between population biology, ecological principles, biogeochemical cycles, ecosystem functions, and human society in the context of biospheric degradation. Principles for conserving plant and animal species, biotic communities, ecosystems, and human societies. (Offered summers at the Au Sable Institute.)

BIO 138 Forest Ecology (4) Prerequisite: one year in biology and one course in ecology, or permission of professor. Ecology of the Great Lakes Forest, including forest community analysis and community structure, soils and soil development, hydrology, and post-glacial history. (Offered summers at the Au Sable Institute.)

BIO 139 Marine Mammals (4) Prerequisite: one year of general biology or one semester of zoology. A course in anatomy and/or physiology is recommended. Biology, behavior, ecology, identification, and conservation of the marine mammals of the Pacific Rim. The study area covers some major habitats in Puget Sound and the Salish Sea, with attention to the diving physiology, social behavior, and communications of whales and seals. The course aims to develop a stewardship perspective rooted in biological principles and directed at the global conservation of marine mammals and their ecosystems. Special attention is given to their use by cultures of the region in order to understand current issues. (Offered summers at the Au Sable Institute.)

BIO 140 Marine Invertebrates (4) Prerequisite: one year of general biology or one semester of general zoology. A study of invertebrate taxonomy, ecology, life histories, and economic importance. Field methods are stressed. (Has been offered through the Au Sable Institute.)

BIO 141 Ornithology/Herpetology (4) Prerequisites: BIO 005 and BIO 006. An introduction to the traditional fields of ornithology (the study of birds) and herpetology (the study of amphibians and reptiles). Emphasizes diversity, natural history and behavior, viewed through ecological and evolutionary lenses. Topics will include tetrapod evolution and systematics, physiology, locomotion, intelligence, communication, social behavior, reproduction, life histories, movements, and conservation. Laboratories will emphasize identification of native California species, surveying and monitoring techniques, and encounters with animals in the field.

BIO 142 Marine Mammal Ecophysiology (4) Prerequisites: BIO 005 and BIO 006. Biology, behavior, ecophysiological adaptations, evolutionary origins and conservation strategies, in light of current global climatic and oceanic change, of marine mammals (with a special emphasis on marine mammals of California waters). The study area covers major habitats, and species, found year-round or seasonally in Ventura, Santa Barbara and San Luis Obispo Counties, with attention focused on diving physiology, temperature regulation, feeding strategies, reproductive efficiency and means of communication in both whales and the Caniformia (the pinnipeds--seals and sea lions). The course aims to not only develop students' understanding of the challenges of being an air-breathing animal in an aquatic environment, but also aims to develop a stewardship perspective rooted in biological principles, directed at the global conservation of marine mammals, and their ecosystems.

BIO 150 Topics in Biology (1-4) Prerequisites: BIO 005, BIO 006, and consent of instructor. Special courses offered on selected topics in Biology. Content as announced.

BIO 151 Plant Classification (4) Prerequisite: BIO 005 and BIO 006. An introduction to the major families of vascular plants and to the principles of botanical nomenclature and systematics. Field work emphasizes the flora of Southern California with a survey of the plant communities of the region.

BIO 190 Practicum (1) Prerequisite: Junior standing. Internship experience in any biological or biomedical field, including the health sciences. Practicum to be done within the normal academic semesters.

BIO 190SS Practicum (1) Prerequisite: Junior standing. Internship experience in any biological or biomedical field, including the health sciences, that involve site locations approved by department in consultation with the GE Committee. Practicum is done within the normal academic year (not during Mayterm or Summer).

BIO 191 Environmental Practicum (1) Prerequisite: Junior standing. Supervised internship experience with national park service, local museums, environmental education facilities, conservation agencies, or other environmental settings. Practicum to be done within the normal academic semesters.

BIO 191SS Environmental Practicum (1) Prerequisite: Junior standing. Supervised internship experience with national park service, non-governmental agencies, environmental education facilities, conservations agencies, or other environmental settings, as approved by department in consultation with the GE Committee. Practicum is done within the normal academic year (not during Mayterm or Summer).

BIO 192 Lab/Instructional Practicum (1) Prerequisite: Junior standing. Supervised internship in the design, preparation, and instructional implementation of laboratory exercises and other curricular components. Entails both laboratory and instructional activities.

BIO 195 Seminar in Biological Literature (1) Prerequisite: Senior standing. Each student will conduct a survey of the primary literature on a selected research topic, write a comprehensive and critical review paper, and make an oral presentation in a departmental forum.

BIO 196 Seminar in Bioethics (1) Prerequisite: Senior standing. Consideration of ethical issues raised by study in the biological sciences. Potential topics include biomedical ethics, environmental ethics, and food and agricultural ethics. Guided by assigned reading, students lead and participate in group discussion, drawing on ethical arguments and a reading of scripture to develop and articulate their own positions.

BIO 197 Biology and Faith (4) Prerequisite: Biology major and senior standing. An overview of relationships between the Christian worldview and major themes in the biological sciences. Considers models for relating science and religion; biological and theological perspectives on human nature, freedom, and mind; sociobiological and biblical views of morality, sexuality, and altruism; neuro-evolutionary interpretations of religion; and ecological and theological assessments of human place in and responsibility toward the natural world (taught without laboratory).

BIO 198 Research (1-4) Prerequisites: MA 005 and BIO 114. Upper Division laboratory and/or field research with a faculty member. Students will typically collect data, analyze the data, and present written and/or oral presentations based on their work.

BIO 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Chemistry

Professor K. Lazar Cantrell, M. Everest
Associate Professors B. Haines, S. Contakes, A. Silberstein (chair)
Instructor S. Cowell

Description of the Major. Chemistry investigates the composition, properties, and changes of properties in substances and various elementary forms of matter. The study of chemistry gives students an opportunity to develop necessary modern knowledge and techniques with instrumentation.

The chemistry program at Westmont provides a broad knowledge of the field and includes eight tracks.

The professional track leads to graduate study in chemistry and prepares students for challenging careers in teaching and research, industrial chemistry research and development, energy development, medicinal and pharmaceutical chemistry and related areas.

The general track, is more flexible and allows students to go directly into laboratory work or to take additional courses in other disciplines for careers in environmental control, industrial chemistry, medical technology, food chemistry and agricultural chemistry.

The biochemistry track provides the basis for pre-medical, pre-pharmacy and pre-dental training or for graduate study in biochemistry, molecular biology, biomedical research or genetic engineering.

The chemical physics track allows students to combine chemistry with a strong emphasis in physics and engineering. This track prepares students for graduate work in chemical physics or chemical engineering, or teaching chemistry and physics at the secondary level. All four tracks lead to the B.S. degree.

For students desiring a broader curriculum or a double major, the B.A. degree track allows the most flexibility. A four-year Fast-Track plan for obtaining a secondary teaching credential in chemistry is available using this track. With careful planning and two extra classes over the summer, it is possible to complete both the general track B.A. requirements and the teaching credential in four years.

Students interested in chemical engineering have the option of the 3-2 program in which they receive a degree from the engineering school and a B.A. from Westmont. The benefits of receiving a liberal arts and sciences background and the more specialized training from a formal engineering school can be beneficial for both the student and the employer. Since the 3-2 program has strict requirements, interested students must meet with a faculty of the department to plan the class schedules consistent with their goals. The program often takes six years to complete.

Distinctive Features. Chemistry students at Westmont have many opportunities to use state-of-the-art instrumentation such as atomic absorption spectrometers, 400 MHz Fourier transform nuclear magnetic resonance spectrometers, FT infrared and ultraviolet-visible spectrometers, fluorimeter, mass spectrometer, pulsed dye laser, automated gel electrophoresis and gas and high performance liquid

chromatographs. They learn analytical chemical techniques, and advanced organic synthesis techniques.

Most of our students participate in undergraduate research. Each student in the B.S. program is *required* to do independent research with a faculty member.

Participating in an off-campus program is encouraged of all chemistry majors. The student may choose to do so during the fall of either the junior or senior year. The student should consult his or her academic advisor so that the required courses can be scheduled ahead of that off-campus semester.

Career Choices. A degree in chemistry can lead to many interesting and challenging careers, including: biochemist, chemical engineer, industrial or clinical chemist, college instructor, dentist, dietician, high school teacher, marine scientist, pharmacologist, physician, radiologic technician, nuclear medicine technician, forensic serologist, toxicologist, technical writer, patent lawyer, industrial hygienist, and industrial management.

B.A. Degree Major Requirements: 46-66 units

A. General Track

Required Lower-Division Courses: 25-26 units

CHM 005, 006 General Chemistry I, II (4,4)
Two of the following (8)
MA 005 Introduction to Statistics (4)
MA 009 Calculus I (4)
MA 010 Calculus II (4)
One of the following combinations (9-10)
PHY 011, 013 Physics for Life Sciences I, II (4,4)
PHY 014 Physics for Life Sciences Laboratory (1)
OR
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)

Required Upper-Division Courses: 21 units

CHM 101, 102 Organic Chemistry I, II (4,4)
CHM 121 Introductory Analytical Chemistry (4)
CHM 195 Seminar (1)
One of the following combinations: (4)
CHM 130 Physical Chemistry I (3)
CHM 132 Computational Physical Chemistry Laboratory (1)
OR
CHM 135 Introductory Physical Chemistry (3)
CHM 132 Computational Physical Chemistry Laboratory (1) or CHM 133 Experimental Physical Chemistry Laboratory (1)
Upper-Division CHM Elective (4)

B. Chemical Engineering 3-2/3-3 Program Track

Required Lower-Division Courses: 34 units

CHM 005, 006 General Chemistry I, II (4,4)
MA 009, 010 Calculus I, II (4,4)
MA 019 Multivariable Calculus (4)
MA 040 Differential Equations with Linear Algebra (4)
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)

Required Upper-Division Courses: 23 units

CHM 101, 102 Organic Chemistry I, II (4,4)
CHM 121 Introductory Analytical Chemistry (4)
CHM 122 Advanced Methods in Chemistry (3)
CHM 125 Analog and Digital Instrumental Analysis (4)
CHM 130 Physical Chemistry I (3)
CHM 132 Computational Physical Chemistry Laboratory (1)

Highly Recommended Courses:

MA 020 Linear Algebra (4)
CS 010 Introduction to Computational Problem Solving (4)

C. Biochemistry Track

Required Lower-Division Courses: 33-34 units

CHM 005, 006 General Chemistry I, II (4,4)
BIO 005, 006 General Biology 1, 11 (4,4)
Two of the following three: (8)
MA 005 Introduction to Statistics (4)
MA 009 Calculus I (4)
MA 010 Calculus II (4)
One of the following combinations: (9-10)
PHY 011, 013 Physics for Life Sciences I, II (4,4)
PHY 014 Physics for Life Sciences Laboratory (1)
OR
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)

Required Upper-Division Courses: 31-32 units

CHM 101, 102 Organic Chemistry I, II (4,4)
CHM 113 Biochemistry (4)
CHM 115 Advanced Biochemistry (4)
CHM 121 Introductory Analytical Chemistry (4)
CHM 195 Seminar (1)
One of the following two: (3)
CHM 130 Physical Chemistry I (3)
CHM 135 Introductory Physical Chemistry (3)

Two of the following three: (7-8)
CHM 131 Physical Chemistry II (3)
BIO 102 Physiology (4)
BIO 114 Genetics (4)

B.S. Degree Major Requirements: 55-71 units

A. Professional Track

Completion of this track results in a degree certified by the American Chemical Society.

Required Lower-Division Courses: 30 units

CHM 005, 006 General Chemistry I, II (4,4)
MA 009, 010 Calculus I, II (4,4)
MA 019 Multivariable Calculus (4)
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 Introductory Physics Laboratory I, II (1,1)

Recommended Lower-Division Courses:

BIO 005 General Biology I (4)
CS 010 Introduction to Computational Problem Solving (4)
MA 040 Differential Equations with Linear Algebra (4)

Required Upper-Division Courses: 40-41 units

CHM 101, 102 Organic Chemistry I, II (4,4)
CHM 104 Inorganic Chemistry (4)
CHM 113 Biochemistry (4)
CHM 121 Introductory Analytical Chemistry (4)
CHM 122 Advanced Methods in Chemistry (3)
CHM 130, 131 Physical Chemistry I, II (3,3)
CHM 132 Computational Physical Chemistry Laboratory (1)
CHM 133 Experimental Physical Chemistry Laboratory (1)
CHM 195 Seminar (1)
One of the following (4)
CHM 198 Chemical Research (4)
CHM 199 Major Honors (4)
One of the following (4-5)
PHY 142/143 Circuits and Electronics/Electronics Laboratory (4,1)
CHM 115 Advanced Biochemistry (4)
CHM 150 Special Topics (4)
CHM 160 Advanced Organic Chemistry (4)

B. General Track

Required Lower-Division Courses: 25-26 units

CHM 005, 006 General Chemistry I, II (4,4)
MA 009, 010 Calculus I, II (4,4)
One of the following combinations: (9-10)
PHY 011, 013 Physics for Life Sciences I, II (4,4)
PHY 014 Physics for Life Sciences Laboratory (1)
OR
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)

Required Upper-Division Courses: 30 units

CHM 101, 102 Organic Chemistry I, II (4,4)
CHM 104 Inorganic Chemistry (4)
CHM 121 Introductory Analytical Chemistry (4)
CHM 195 Seminar (1)
One of the following (2)
CHM 198 Chemical Research (2)
CHM 199 Major Honors (4)
One of the following combinations: (4)
CHM 130 Physical Chemistry I (3)
CHM 132 Computational Physical Chemistry Laboratory (1)
OR
CHM 135 Introductory Physical Chemistry (3)
CHM 132 Computational Physical Chemistry Laboratory (1) or CHM 133 Experimental Physical Chemistry Laboratory (1)
Upper-Division CHM Electives (8)

C. Biochemistry Track

Required Lower-Division Courses: 33-34 units

CHM 005, 006 General Chemistry I, II (4,4)
BIO 005, 006 General Biology I, II (4,4)
MA 009, 010 Calculus I, II (4,4)
One of the following combinations: (9-10)
PHY 011, 013 Physics for Life Sciences I, II (4,4)
PHY 014 Physics for Life Sciences Laboratory (1)
OR
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)

Required Upper-Division Courses: 34 units

CHM 101, 102 Organic Chemistry I, II (4,4)
CHM 113 Biochemistry (4)
CHM 115 Advanced Biochemistry (4)
CHM 121 Introductory Analytical Chemistry (4)
CHM 195 Seminar (1)

One of the following (1)
CHM 198 Chemical Research (1)
CHM 199 Major Honors (4)
One of the following combinations: (4)
CHM 130 Physical Chemistry I (3)
CHM 132 Computational Physical Chemistry Laboratory (1)
OR
CHM 135 Introductory Physical Chemistry (3)
CHM 132 Computational Physical Chemistry Laboratory (1) or CHM 133 Experimental Physical Chemistry Laboratory (1)
Two of the following three: (8)
CHM 131 Physical Chemistry II (3) ***and*** CHM 133 Experimental Physical Chemistry Lab (1)
BIO 102 Physiology (4)
BIO 114 Genetics (4)

Those interested in graduate school in biochemistry should choose CHM 130 and 131 and take additional courses in molecular biology, inorganic and organic chemistry.

D. Chemical Physics Track

Required Lower-Division Courses: 39 units

CHM 005, 006 General Chemistry I, II (4,4)
MA 009, 010 Calculus I, II (4,4)
MA 019 Multivariable Calculus (4)
MA 040 Differential Equations with Linear Algebra (4)
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)
PHY 025 Modern Physics (4)
PHY 026 Modern Physics Laboratory (1)

Required Upper-Division Courses: 27-28 units

CHM 101 Organic Chemistry I (4)
CHM 130, 131 Physical Chemistry I, II (3,3)
CHM 132 Computational Physical Chemistry Laboratory (1)
CHM 133 Experimental Physical Chemistry Laboratory (1)
CHM 195 Seminar (1)
One of the following (2)
CHM 198 Chemical Research (2)
CHM 199 Major Honors (4)
*CHM Electives (4)
*PHY Electives (8 or 9)
PHY 142/143 Circuits and Electronics with lab (4,1) recommended
*Department Chair approval required.

Recommended Course

MA 140 Complex Analysis (4)

Requirements for a Minor: 20 units

Required Lower-Division Courses: 8 units

CHM 005, 006 General Chemistry I, II (4,4)

Required Upper-Division Courses: 12 units

Must include one course from three of the following categories:

Organic Chemistry (4)
- CHM 101 Organic Chemistry I (4)
- CHM 102 Organic Chemistry II (4)
- CHM 160 Advanced Organic Chemistry (4)

Inorganic Chemistry (4)
- CHM 104 Inorganic Chemistry (4)

Analytical Chemistry (4)
- CHM 121 Introductory Analytical Chemistry (4)
- or
- CHM 122 Advanced Methods in Chemistry (3)
- And an additional one (1) unit course

Biochemistry (4)
- CHM 113 Biochemistry (4)
- CHM 115 Advanced Biochemistry (4)

Physical Chemistry (4)
- CHM 130 Physical Chemistry I (3)
- CHM 131 Physical Chemistry II (3)
- CHM 135 Introductory Physical Chemistry (3)
- And an additional one (1) unit upper-division CHM course for a total of four (4) in this category

Preparation for Teaching Chemistry at the Secondary Level

Students wishing to teach at the high school or junior high level should complete the requirements for a B.A. major, following the general track. In order to complete a fifth-year Credential Program at Westmont, students should also complete four or more of the following (minimum of 12 units) prior to applying to the program.

KNS 156 Health Education for the Classroom Teacher (2)
ENG 106 Language Acquisition (4)
ED 101 Explorations in Teaching: Culturally Diverse Secondary Schools (4)
ED 105 Perspectives on Cultural Diversity and Education (4)
ED 130 Special Education for the Classroom Teacher (2)
ED 161 Technology for the Classroom Teacher: Secondary (2)

In many cases, it is possible to complete requirements for the major and the Westmont Credential Program in four years. Such a "fast-track" schedule requires early planning, ideally beginning in the first year. Students wishing to complete such a program should refer to more specific advising materials available on the department web-page.

All students wishing to explore secondary teaching are also strongly encouraged to consult with faculty advisors in the Department of Education as early in their undergraduate program as possible, in addition to their major advisor.

Lower-Division Course Descriptions

CHM 001 Introductory General Chemistry (4) Three lectures and one four-hour laboratory per week. The periodic table, atomic structure, and other fundamentals of chemistry, including laboratory.

CHM 004 Chemistry, Culture, and the Environment (4) Chemistry survey course in which students explore science as a way of knowing and learn modern ideas about matter and energy. Topics include: atomic-molecular theory, the laws of thermodynamics, chemical periodicity, bonding, structure, and reactivity. These ideas are then used to develop an understanding of the chemistry of life, health, the environment, and selected technologies. Throughout, students consider the relationships between science, technology, and Christian thought and practice.

CHM 005 General Chemistry I (4) Prerequisite: Admissions math requirement. Corequisite: CHM 005L. Three lectures and one four-hour laboratory per week. Covers basic concepts of physical, inorganic, organic, analytical and nuclear chemistry.

CHM 005S General Chemistry I Supplement (1) Corequisite: CHM 005. Supplemental treatment of mathematics and problem-solving strategies for General Chemistry I.

CHM 006 General Chemistry II (4) Prerequisite: CHM 005. Corequisite: CHM 006L. Three lectures and one four-hour laboratory per week. Covers basic concepts of physical, inorganic, organic, analytical and nuclear chemistry.

CHM 005H, 006H General Chemistry I, II: Honors (4,4) Prerequisites: By invitation only and Admissions math requirement. Three lectures and one four-hour laboratory per week. A survey of concepts in physical, inorganic, organic, analytical and nuclear chemistry. Examines each topic with more rigor than CHM 005 and CHM006.

CHM 014 Scientific Glassblowing (1) Practical construction and repair of glass apparatus. One three-hour laboratory per week.

Upper-Division Course Descriptions

CHM 101, 102 Organic Chemistry I, II (4,4) Prerequisite: CHM 006. Three lectures and one four-hour laboratory per week. Preparation and properties of aliphatic and aromatic compounds, reaction mechanisms, organic synthesis, and qualitative organic analysis in theory and laboratory.

CHM 104 Inorganic Chemistry (4) Prerequisite: CHM 101. Corequisite: CHM 104L. Recommended: CHM 102, CHM 130, and CHM 131 or CHM 135. The structure, spectroscopy, and reactivity of main group and transition metal compounds will be presented and systematized in terms of current bonding models, particularly molecular orbital and group theory. The results of these studies will then be applied to problems in bioinorganic, materials, environmental, and organometallic chemistry. Three lectures per week.

CHM 113 Biochemistry (4) Prerequisites: BIO 005, CHM 101, and CHM 102. Introduction to metabolism through a consideration of protein structure-function relationships, enzyme action and regulation, and catabolic and anabolic pathways, emphasizing the metabolism of carbohydrates. Laboratory work emphasizes enzyme isolation and characterization.

CHM 115 Advanced Biochemistry (4) Prerequisite: CHM 113. Examination of biochemical processes with a focus on the metabolism of lipids, amino acids, and nucleotides, and the biochemistry of nucleic acids. Central pathways are considered in detail, including regulatory mechanisms and hormonal signaling. Other selected processes and the integration of mammalian metabolism is explored.

CHM 121 Introductory Analytical Chemistry (4) Prerequisite: CHM 006. Suggested pre- or co-requisite: CHM 101. Three lectures and one four-hour laboratory per week. Provides a theoretical and practical introduction to the analytical process with an emphasis on problem definition, method selection and validation, sampling and sample preparation, analysis, the communication of warranted results, and quality assurance. Course topics include statistics, spectroscopic methods, gas and liquid chromatography, gravimetric analysis, titrimetry, and electromechanical methods. The laboratory portion of the course emphasizes the development of scientific writing proficiency.

CHM 122 Advanced Methods in Chemistry (3) Prerequisites: CHM 101 and CHM 121 or consent of instructor. Two lectures and one four-hour laboratory per week. An advanced integrated course that develops students proficiency with the use of advanced synthetic and instrumental methods and their application to small molecule, metallurgical, polymeric, nanoscale, food, and environmental systems. Laboratory work focuses on the selection, design and implementation of syntheses and instrumental and wet chemical analysis methods with the aim of developing problem solving, troubleshooting, scientific information literacy, and professional communication skills.

CHM 125 Analog and Digital Instrumental Analysis (4) A laboratory course in analog and digital electronics: assembly language and microprocessors, computer interfacing, data acquisition by analog to digital conversion, and stepping motors. Two lectures and two three-hour laboratories per week.

CHM 130 Physical Chemistry I (3) Prerequisites: MA 010. Corequisite: CHM 132. Postulates in quantum mechanics and application of the Schrodinger's equation to translation, rotation and vibration. Angular momentum, approximation methods, group theory, atomic and molecular structure, spectroscopy, and electric and magnetic properties, chemical kinetics.

CHM 131 Physical Chemistry II/PHY 160 (3) Prerequisites: MA 010 and CHM 130 or PHY 025. Corequisite: CHM 133. Classical equilibrium thermodynamics: applications of the first, second, and third laws to condensed and gas phases. Principles and applications of statistical thermodynamics.

CHM 132 Computational Physical Chemistry Laboratory (1) Prerequisite: CHM 102. A survey of computational chemistry, including conformational analysis, molecular dynamics simulations, computer-aided drug design, ab initio and density functional theory quantum mechanical methods. Oral presentations of laboratory results are required.

CHM 133 Experimental Physical Chemistry Laboratory (1) Corequisites: CHM 130 or 131 or 135. One four-hour laboratory per week. Emphasizes thermodynamics, kinetics, spectroscopy, and data analysis. Oral and written presentations of laboratory results are required.

CHM 135 Introductory Physical Chemistry (3) Prerequisite: MA 009. Corequisite: CHM 132 or 133. Applications of physical chemistry to the life sciences. Thermodynamics, energy and the first law, entropy and the second law, free energy and bioenergetics, solar energy. Chemical and biochemical kinetics, biochemical spectroscopy, transport properties, macromolecules.

CHM 150 Special Topics (1-4) Prerequisites: CHM 102 (and others possible, depending on topic). Topics include advanced biochemistry, biophysical chemistry, materials chemistry, bioinorganic chemistry, advanced spectroscopy, organometallic chemistry of the transition elements, and electroanalytical chemistry**.**

CHM 160 Advanced Organic Chemistry (4) Prerequisites: CHM 102 and CHM 131 or CHM 135. Advanced topics in kinetics and mechanisms of organic reactions, stereochemistry, molecular orbital theory, photochemistry, organometallic chemistry, polymers, and natural products. Three lectures and one four-hour laboratory per week.

CHM 190 Chemistry Internship (1) Supervised experiences in the chemistry department or in community and industrial facilities such as clinical or research laboratories. Generally one unit of credit per semester.

CHM 195 Seminar (1) Prerequisite: Chemistry major and junior standing. Examination of the relationship between chemistry and Christianity with special emphasis given to the role of matter and matter theory in Christian thought, practice, and aspiration; chemical creativity as an expression of the Imago Dei; and the development of philosophies of ministry that support Christian chemists' responsible lifelong engagement with the church and their profession. Weekly reading assignments will address the historical interplay between natural philosophy and religion, the doctrines of creation and the imago dei, the nature of scientific knowledge, environmental stewardship, scientific responsibility, and the scientific vocation. A written report is submitted at the conclusion of research activities.

CHM 198 Chemical Research (1-4) Prerequisites: CHM 102, CHM 125, or CHM 131. Students work closely with a faculty person on original research projects. The results may be reported in research conferences and journal form for publication.

CHM 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Communication Studies

Professors D. Dunn, L. Stern (chair)
Associate Professor E. Gardner
Assistant Professor P. Mena

***D*escription of the Major.** Many have said that symbolic communication is the defining human characteristic. Even with this recognition, its mysteries often elude us. How do messages lead to meaning—or misunderstanding or manipulation? How has public discourse influenced culture? What are the effects of image-based communication? These and other questions are explored in the Communication Studies major. Our symbol-making nature is considered in all its manifestations, with attention given to the verbal and nonverbal aspects of oral, print, and electronic messages.

The mission of Westmont's Communication Studies department is to help students improve in both "wisdom and eloquence," a centuries-old but still contemporary ideal. Students develop facility in communication, gain an understanding of rhetoric as part of the human experience, and bring Christian values to bear on communication as a moral act. Topics include the difficulty of interpersonal faithfulness in a transient culture, the increasing power of the media, and the role of persuasion and propaganda in social movements.

***D*istinctive Features.** Besides completing a few foundational courses, students select courses from three categories representing various communication contexts and applications, three elective courses, and complete a capstone course their senior year. In addition, students meet a "Global Communication Requirement," which is one way the department highlights its commitment to enlarging students' thinking and experience. Communication Studies majors are encouraged to spend time abroad. Options include both Westmont-run programs and approved courses in Paris, the Netherlands, and Buenos Aires. The Westmont in San Francisco program also works well with the major. Every other year or so, the department sponsors a Mayterm conflict and reconciliation program abroad.

As students choose from the major's categories, they can take multiple classes in an interest-area such as media or rhetorical studies. Although the curriculum is designed more to aid the student in being transformed intellectually according to the study of communication than to teach technique, many courses emphasize learning to think, speak, and write better.

Students are also encouraged to complete communication-related internships, engage in original research with their professors, and participate in academic conferences in the discipline of communication. The Westmont College chapter of Lambda Pi Eta, the national communication honor society, is an active campus organization and provides opportunities for leadership. Each year the department presents an Outstanding Senior Award to a graduating senior.

***C*areer Choices.** The bachelor's degree in communication prepares students well for a wide variety of careers and opportunities. Graduating majors

have entered the fields of marketing, journalism, management, teaching, mediation, public relations, international relief and development work, ministry, advertising, sales, event planning, diplomacy, film production, real estate and youth work. The major also provides the essential foundation for graduate work. Many graduates have gone on to law school, counseling, graduate school in communication, business school, and seminary, to name just a few.

Requirements for a Communication Studies Major: 46 units

Required Foundation: 12 units

COM 006 Messages, Meaning and Culture (4)
COM 015 Public Speaking (4)
COM 098 Introduction to Communication Research (4)

Required Options by Category: 34 units

Relationships and Conflict (one of the following): 4 units

COM 110 Interpersonal Communication (4)
COM 127 Group Communication and Leadership (4)
COM 133 Conflict and Reconciliation (4)
COM 134 Conflict and Reconciliation: Case Study (4)

Discourse and Society (one of the following): 4 units

COM 101 Theories of Rhetoric and Communication (4)
COM 125 Media and Mass Communication (4)
COM 126 Fact-Checking and Misinformation (4)
COM 135 Studies in Public Discourse (4)
COM 138 International Rhetoric (4)
COM 145 Organizational Communication (4)

Reasoning and Writing (two of the following): 8 units

COM 087 Writing for the Media (4)
COM 103 Communication Criticism (4)
COM 123 Multimedia Journalism (4)
COM 130 Argumentation and Advocacy (4)
COM 140 Studies in Communication Ethics (4)
ENG 104 Modern Grammar and Advanced Composition (4)

Electives (not taken above): 16 units

COM 101 Theories of Rhetoric and Communication (4)
COM 103 Communication Criticism (4)
COM 107 Focus on Film (1)
COM 110 Interpersonal Communication (4)
COM 115 Advanced Public Speaking (4)
COM 123 Multimedia Journalism (4)

COM 125 Media and Mass Communication (4)
COM 126 Fact-Checking and Misinformation (4)
COM 127 Group Communication and Leadership (4)
COM 128 Facilitating Ethical Communication (4)
COM 129 Persuasion and Propaganda (4)
COM 130 Argumentation and Advocacy (4)
COM 133 Conflict and Reconciliation (4)
COM 134 Conflict and Reconciliation: Case Study (4)
COM 135 Studies in Public Discourse (4)
COM 138 International Rhetoric (4)
COM 140 Studies in Communication Ethics (4)
COM 145 Organizational Communication (4)
COM 148 Postmodern Narratives (4)
COM 190 Internship (2-4)
COM 195 Special Topics (4)
COM 198 Independent Research (1-4)
COM 199 Major Honors (4)

Senior Capstone Experience: 2 units

COM 196 Senior Seminar (2)

Global Communication (complete at least one)*

Advanced Modern Foreign Language (SP-100, FR-100, or other advanced level language beyond the elementary and intermediate levels)
Academic Study Abroad experience of at least one month (Mexico, Europe, etc.)
Westmont in San Francisco
COM 138 International Rhetoric

*This category is a requirement students must complete, but it need not add to the unit total. Students may meet the requirement with a course already taken to fulfill the major (language or International Rhetoric). It may also be met through participation in an off-campus program.

Requirements for a Minor: 20 units

Required Foundation: 4 units

COM 006 Messages, Meaning and Culture (4)

Electives: 16 units

Take 16 units of Communication Studies courses. COM 190 (Internship) may not be taken to fulfill the minor.

Lower-Division Course Descriptions

COM 006 Messages, Meaning and Culture (4) A theory course that seeks to demonstrate the centrality of communication in our perceptions of reality and interactions with others. The course offers perspectives by which to interpret and critique our message-dense society, and reviews issues of language and meaning.

COM 015 Public Speaking (4) A performance class that presents principles of oral communication with classroom evaluation of speeches. Primary emphasis will be on student performance and understanding of basic speech theory.

COM 087 Writing for the Media (4) A conceptual and practical course that introduces the fundamentals of media writing, with an emphasis on journalistic writing and reporting. The course focuses on helping students develop writing and reporting skills for print and electronic media.

COM 098 Introduction to Communication Research (4) Prerequisites: COM 006 and sophomore standing. Introduction to social scientific and humanistic approaches to the study of communication, including both qualitative and quantitative methods.

Upper-Division Course Descriptions

COM 101 Theories of Rhetoric and Communication (4) Prerequisite: COM 006. Examines the philosophy and importance of rhetoric as the art of discourse. Draws from classical and biblical sources.

COM 103 Communication Criticism (4) Prerequisites: COM 006 and COM 098 or any approved research methods course. A writing class that examines the theory and practice of interpreting and articulating the meaning, effectiveness, ethics and aesthetics of a broad variety of rhetorical artifacts, from speeches, literature to social media posts.

COM 107 Focus on Film (1) Explores and conceptualizes a select dimension of the craft of filmmaking, including expressive properties and codes of cinema in mainstream and alternative traditions of film. Students are encouraged to learn how films work, what techniques filmmakers use to achieve desired effects, and how to "read" film. May be taken up to 4 times for 4 units as topics vary.

COM 110 Interpersonal Communication (4) Examines theory and practice of communication among friends, roommates, romantic partners, and family members related to interpersonal flourishing. Attention given to positive interpersonal influence, listening well, developing and maintaining friendships and romantic relationships, and social support, among other topics. This course also examines ways to improve our interpersonal conflict management.

COM 115 Advanced Public Speaking (4) Prerequisite: COM 015. An intensive study of the theory, preparation, delivery, and criticism of public speaking. The course includes public speaking opportunities both inside and outside the classroom.

COM 123 Multimedia Journalism (4) Prerequisite: COM 087. Examines the impact of technology on journalism and introduces students to the basic elements of multimedia journalistic storytelling. Students study the evolving world of digital journalism and learn how to create online stories using multimedia elements (text, photos, videos, audio, data visualization, infographics, interactive maps, timelines).

COM 125 Media and Mass Communication (4) Prerequisite: COM 098 or any approved research methods course. Examination of the social and cultural impact of mass media (print, radio, television, film, new technologies), especially upon politics, public discourse, education, and religion.

COM 126 Fact-Checking and Misinformation (4) A course that examines the credibility and sharing of misinformation, as well as ways to deter the spread of false and misleading information on the Internet.

COM 127 Group Communication and Leadership (4) Theory and practice of communication in a variety of small-group contexts. Attention given to roles, conformity, decision-making, leadership, and group climate. Special emphasis given to group and leadership dynamics in the church, as well as diverse community and support groups.

COM 128 Facilitating Ethical Communication (4) This course provides practice, research, and discussion surrounding the nature of group deliberation in community and civic life, as well as the nature and practice of facilitating dialogue in community.

COM 129 Persuasion and Propaganda (4) The study of motivation and influence by various perspectives (rhetorical, philosophical, psychological) and by contexts (interpersonal, group, campaigns, and macrosocietal). Includes examination of historical and contemporary propaganda.

COM 130 Argumentation and Advocacy (4) Examines the philosophy, structure, theory and practice of argumentation as a counterpoint to the easy credulity of the modern age. Includes experience in advocacy and debate.

COM 133 Conflict and Reconciliation (4) How might human communication enable peacemaking both internationally and interpersonally? Emphasis on dialogic perspectives, role of power, face needs, cultural differences, communication of forgiveness, and symbolic constructions of enemies.

COM 134 Conflict and Reconciliation (4) This course is offered as part of the off-campus Mayterm program in conflict and reconciliation. In-depth case studies of particular conflict contexts and exploration of how communication arts and sciences help us understand and transform conflict. Previous cases/locations include Northern Ireland, South Africa, the Middle East, and Germany.

COM 135 Studies in Public Discourse (4) Prerequisite COM 098 or any approved research methods course such as POL 040. Study of the use of speaking and rhetoric in the controversies, social movements, and political struggles that have constructed U.S. national identity, such as the Civil Rights Movement, the Women's Rights Movement, and developments in international relations. Focus is on key speakers and ideas, how they were shaped by and helped shape national discourse, and the struggle to expand the diversity of voices with power in the public sphere.

COM 138 International Rhetoric (4) Examines how communication patterns and commitments build and reflect people and cultures. Focusing on themes of culture, belonging, and power, the course will offer comparative explorations of rhetorical and intellectual traditions around the world, recognize our interconnectedness in a global context, and develop our abilities to engage cross-culturally.

COM 140 Studies in Communication Ethics (4) The ethical issues and legal constraints related to communication situations will be studied. Typically, the course will emphasize case studies from the news, advertising, and entertainment industries. Other times the course will focus more broadly on communication dilemmas, including issues related to freedom of speech.

COM 145 Organizational Communication (4) Prerequisite: COM 098 or any approved research methods course. The study of profit and non-profit organizations, including the study of power, leadership, teamwork, gender, identity, and the nature of work in a fast-paced, technological, global work environment. Many theoretical and historical perspectives are explored, including scientific management, systems and networks, interpretive, cultural, critical, and postmodern approaches.

COM 148 Postmodern Narratives (4): Seminar exploration in communication theory and postmodern thought, paying special attention to cultural narratives. Film and other texts are used to further explore and illustrate the theories and perspectives. Students are invited and expected to shape the discussions as well as participate in them.

COM 190 Internship (2-4) Prerequisites: COM 006 and COM 098 or approved research methods course. Practical field experience, in the form of an internship with an organization in the local community. Coursework emphasizes relating learning in the discipline of communication with learning in the organization, as well as discussions on various approaches to vocation and calling.

COM 195 Special Topics (4) A variety of special topics will be offered periodically, such as Health Communication, Gender and Communication.

COM 196 Senior Seminar (2) Prerequisite: Senior standing or instructor consent. This capstone course asks students to look back at their studies in communication at Westmont and to look toward living out ideals and skills after graduation.

COM 198 Independent Research (2-4) Prerequisites: Junior standing and instructor consent. Guided research on appropriate issues in communication studies culminating in a major paper.

COM 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Computer Science

Kathleen Smith Chair of the Natural & Behavioral Science,
Professor of Mathematics R. Howell
Professor G. Song
Associate Professors A. Aboud. M. van der Walt (chair)
Assistant Professors K. Hansen, M. Ryu

***D*escription of the Major.** Computers permeate every aspect of our society, and the science of computing is an exciting and rapidly changing field. The faculty designed the program at Westmont to teach students how to think computationally, which will give them the best preparation for careers in computer science. They will be equipped with valuable ideas and methods, such as:

Programming: Just like one can't build a cathedral without knowing how to lay bricks, we want our students to have a strong foundation in using multiple computer languages and platforms.

Algorithmic Thinking: Regardless of which computer language one is using, learning how to create efficient and effective algorithms, and analyze the algorithms of others, is a critical skill for our students.

Handling ambiguity: Because the real world rarely gives us easy or well-defined problems on which to work, we want our graduates to be able to function in an imprecise world using research, group work, critical thinking and creativity. The modern computing environment involves professionals from many fields working together as a team to solve problems. Success in such an environment requires the ability to analyze problems from many perspectives and communicate clearly with people from other backgrounds.

Inspired Thinking: We aren't just any other place to study, we want to train **faithful** computer scientists, who are called by Jesus Christ, and can articulate and identify to what ends computational systems are changing the world. Our society desperately needs the leadership and insight of individuals who are able to combine technical knowledge with inspired ethical and moral principles.

In this way, this major introduces students to computer science and develops the requisite technical skills for work in the field, further study, or research. By focusing on foundational concepts and ideas, students are prepared to grow and adapt as the field continues to change rapidly.

Set in the context of a liberal arts college, the computer science program at Westmont offers broad opportunities for exposure to problems and ideas from other disciplines. In recognition of the increasingly interdisciplinary contexts faced by computer professionals, students may complete a B.A. or B.S. degree in computer science with an interdisciplinary emphasis in another discipline such as art, biology, psychology, business, or engineering.

Distinctive features. Students enjoy the benefits of working closely with faculty in a variety of settings. Students can gain deeper understanding and develop their ability to solve novel problems by participating in research with faculty, either during the summer or the academic year. Research also brings the opportunity for students to develop valuable communication skills by co-authoring papers with faculty and presenting their results at conferences.

The computer science program maintains a strong sense of community through weekly events shared between students and faculty, annual department retreats, meals, and social events at faculty homes. Santa Barbara has earned the nickname "Silicon Beach" by being home to a number of high-tech companies; thus opening the way for student work and/or paid internships off-campus. Students can also engage in paid work for the department as teaching assistants or for the campus information technology department performing trouble-shooting and maintenance of campus networks and computers.

Career Choices. Opportunities for careers in computer science are both numerous and diverse, and a critical shortage of well-prepared professionals is predicted to exist for many years to come. Students who choose to further their studies in graduate school will be well prepared to do so. Students who wish to join the workforce immediately also have many opportunities. Computers have become ubiquitous and permeate every facet of our society. More and more careers are integrally related to computer science such as bioinformatics, cognitive science, digital media arts, neuroscience, artificial intelligence, computer graphics, management information systems, human-computer interaction, and intellectual property law. Essentially all fields and organizations welcome the talents of those properly trained in computer science. Computing on the mission field is also a growing area in which students will be able to make significant contributions.

Requirements for the Computer Science Major

Required Core: (36 units)

CS 010 Introduction to Computational Problem Solving (4)
CS 015 Discrete Mathematics (4)
CS 030 Introduction to Object Oriented Data Structures (4)
CS/MA 116 Artificial Intelligence (4)
CS 120 Design and Analysis of Algorithms (4)
CS 130 Collaborative Software Engineering (4)
CS 144 Computer Organization and Architecture (4)
CS 195 Senior Seminar (4)
MA 009 Calculus I (4)

In addition to the core courses, students must complete elective units to satisfy one of the following two tracks. Elective units may include a total of no more than 4 units from among CS 190 Internship, CS 192 Project, or CS 198 Research, of which 190 and 192 may contribute no more than 2 units each. Students complete one of the following two tracks:

B.A. in Computer Science (48 units including core)

Additional CS courses numbered CS 100 or above to bring the total to 48 units

B.S. in Computer Science (60 units including core)

Additional CS courses numbered CS 100 or above to bring the total to 60 units

Requirements for a Computer Science Minor: 20 units

CS 010 Introduction to Computational Problem Solving (4)
CS/MA 015 Discrete Mathematics (4)
CS 030 Introduction to Object Oriented Data Structures (4)

Additional CS courses numbered CS 100 or above to bring the total to 20 units. Courses numbered CS 190 or above do not count for elective credits.

Lower-Division Course Descriptions

CS 010 Introduction to Computational Problem Solving (4) No prior computer or programming experience required. What are the general principles for designing solutions to problems? In particular, how can we employ such principles to implement computer programs that solve practical problems? This course covers the basics of programming including language features, disciplined programming style, and documentation, algorithm design, and the software development process. Discussion of ethical issues arising from the creation and use of computer programs. Note: a laptop is required for this course.

CS/MA 015 Discrete Mathematics (4) Prerequisite: Admissions Math Requirement. If calculus is analog, then discrete mathematics is digital; it is the study of things that you count, rather than things that you measure. Topics include logic (organizing thought), set theory (organizing objects), graph theory (representing relationships), combinatorics (clever ways of counting), and algorithms (analyzing processes). Students will learn how mathematicians prove theorems and how computer scientists solve problems.

CS 030 Introduction to Object Oriented Data Structures (4) Prerequisite: CS 010. This class introduces abstract data types (ADTs) and their implementations in Java. ADTs considered include: lists, stacks, queues, maps, trees and graphs. Sorting and searching algorithms. Big-O notation. Software testing and program verification. Discussion of ethical issues arising from the creation and use of computer programs. Note: a laptop is required for this course.

Upper-Division Course Descriptions

CS 105 Programming Languages (4) Prerequisite: CS 030. Language processors; data; binding time; operations; sequence control; referencing environments; scope of a variable; storage management; operating environment, syntax; translation.

CS/BIO 106 Computational Biology (4) Prerequisite: CS 010 or consent of instructor. A college-level course on biology, physics, or chemistry is recommended. This course offers a range of topics on computational biology, including: an introduction to protein structures, protein structure representations, structure geometry and symmetry, computational analysis of protein sequences and structures, mutations, sequence structure relationships, comparison of structures, visualization and modeling, structure prediction, protein fold classification using basic machine learning, protein-protein interactions, coarse-grain modeling of proteins, and molecular dynamics simulations, etc.

CS 116 Artificial Intelligence (4) Prerequisites: CS 030, CS 120, and MA 009. An introduction to the field of AI/ML, that includes topics such as computational and philosophical principles of intelligence, problem solving and search, game playing, knowledge representation and reasoning, methods for designing systems that learn from data and improve with experience, uncertainty and applications of such natural language processing and computer vision. Topics vary by instructor.

CS 120 Design and Analysis of Algorithms (4) Prerequisites: MA 009, MA/CS 015, and CS 030. How fast is a fast algorithm? How do we determine if one algorithm is faster than another? How does the amount of memory used by an algorithm trade off against the time that algorithm takes? What is a perfect algorithm and how can we find one? These and other questions about the formal properties of algorithms and the classic data structures used by algorithms are the focus of this course.

CS/MA 121 Introduction to Numerical Analysis (4) Prerequisite: MA 010 or 10H, Recommended: CS 010. Numerical methods in the solution of equations; polynomial approximations; integration, and the solution of differential equations. Use of computer where applicable.

CS/MA 124 Introduction to Cryptography (4) Prerequisites: MA/CS 015 and/or MA 020. Modern applications of computing demand that the storage and transmission of data be secure and reliable. Cryptography is the study of techniques for protecting data from adversaries, while coding theory deals with representing data robustly in digital form. This course provides an introduction to these related fields. Topics include basic number theory and modern algebra, classical and modern cryptosystems, discrete logarithms, hash functions, digital signatures, elliptic curves, and error-correcting codes.

CS 125 Database Design (4) Prerequisite: CS 030. Database system architecture; relational and object-oriented databases, the Structure Query Language (SQL), normal forms and database design; query processing and optimization; handling transactions, concurrency control, crash recovery; data warehousing and data mining.

CS 128 Information Retrieval and Big Data (4) Prerequisites: CS 030 and CS 120. This course traces the development of Big Data from its origins in search engines through cloud computing. The role of economic interests, adversarial forces, and user interface design in the shaping of the technology is explored. Students learn web crawling, indexing, and search ranking techniques. Recent frameworks for creating large scale data warehouses and analysis engines are introduced.

CS 130 Collaborative Software Engineering (4) Prerequisites: CS 030 and junior standing. When the scope of a software project exceeds a single programmer's capacity within a given time-frame, what sorts of skills and tools become necessary to support collaboration and coordination within teams? This course introduces

students to the challenges of developing large-scale software artifacts. The approach taken involves the implementation of one or more large multi-person projects. Other topics include: software life-cycle, fundamental concepts of software design, modern language features, verification and validation techniques.

CS/MA 135 Theory of Computation (4) Prerequisite: CS 015 or MA 015. In his early thirties, Alan Turing cracked the Enigma code, while establishing the theoretical foundation for what is computable, and what is not. He died tragically at the age of 41. This course explores what it means to compute, what features are necessary for a machine to compute, and the respective limits on what different machines can compute.

CS 140 Networks (4) Prerequisite: CS 144 or consent of instructor. Network technologies including packet switching, framing, local and wide area technologies, network addressing, repeaters, bridges, hubs, switches, topologies, next-hop forwarding, shortest path computation, delay and throughput, and protocol layers. Internetworking including IP, TCP, UDP, datagrams, routers, and protocol ports. Network applications including client-server paradigm, and domain name system. Web technologies and protocols including HTTP, CGI, and Java.

CS 144 Computer Organization and Architecture (4) Prerequisite: CS 010. Introduction to the hardware-software interface. Digital logic, data representation, computer arithmetic, software vs. hardware tradeoffs, instruction set architecture, addressing techniques, cache, virtual memory, and pipelining.

CS 150 Topics in Computer Science and Data Analytics (4) Prerequisites: courses vary, or consent of instructor. Special courses offered on selected advanced topics in computer science. Content as announced. May be repeated for credit in a different topic.

CS 190 Internship (1-4) Prerequisite: CS 030. Field experience arranged in conjunction with the department and supervised by professional computer scientists. (By arrangement.)

CS 190SS, 191SS Computer Science Seminar for Service Learning Internship (1,0) Prerequisite: Consent of instructor. Students will spend one (CS-191SS) or three hours (CS-190SS) per week running after-school enrichment programs in mathematics or computer science in local elementary, junior high, or high schools. Students will also attend four hours of course meetings, read assigned material, and write a reflective paper on the experience. (By arrangement.)

CS 192 Project (1-4) Prerequisite: CS 130. Participation in a multi-person computer science project. (By arrangement.)

CS 195 Senior Seminar (4) Prerequisite: senior standing as a computer science major or minor. In this capstone class, students reflect on computer science as a discipline, the connections with other disciplines, the impacts of technology upon society, and ethical considerations introduced by computers. In the process of completing a major project, students consider marketing, design, implementation, testing, and maintenance. In this class, seniors complete and present their online portfolio. As the culmination of their program, students explore the transition to graduate school or the commercial sector.

CS 198 Research (1-4) Prerequisite: CS 030. Students will work closely with faculty on original research. (By arrangement.)

CS 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Data Analytics

Kathleen Smith Chair of the Natural & Behavioral Sciences,
Professor of Mathematics R. Howell
Professors P. Hunter, E. Noell, G. Song
Associate Professors A. Aboud, M. van der Walt (chair)
Assistant Professors K. Hansen, M. Ryu
Instructor C. Harmon

***D*escription of the Major**. The quantity and scale of available data is changing the way that decisions are being made. The ability to apply mathematical, economic, and computer science perspectives to data is becoming ever more important. The Data Analytics major brings together foundational courses from mathematics, computer science, and economics and business. These courses and experiences provide a student with a rigorous and flexible set of tools for storing, transforming, and drawing meaning from data.

***D*istinctive Features**. Data Analytics is inherently cross-disciplinary. By drawing on faculty whose areas of expertise are in the three disciplines supporting data analytics we are able to teach the subject from a position of strength. Moreover, by placing a data analytics program in the context of a Liberal Arts institution, graduates are equipped to apply their skills in more diverse arenas, bring a broader perspective to their analyses, and communicate their conclusions more effectively. Data Analytics requires the ability to think critically, ask good questions, identify the most important features of information, and communicate clearly. These skills are best fostered in a Liberal Arts environment.

***C*areer Choices**. Business leaders and policy makers in government and non-government organizations (NGOs) are increasingly dependent on people who can make sense of the massive amounts of data being generated. Even small businesses are increasingly reliant on social media data. A person with skills in data analytics may play the role of designer, collector, manager, and/or interpreter of data to support organizational decision making. Governmental decisions at all levels are more effective when informed by careful analysis of social and economic data. NGOs can work more effectively when guided by analysts who can use data to identify where needs are greatest and change will be most effective. Businesses are more effective when decisions are based on the careful analysis of market and environmental data. Even sports teams can be more successful when strategies are based on careful analysis of the effectiveness of tactics and policies are designed to reduce player injuries. All of these types of organizations employ both in-house and external consultants to help them make better decisions. The need for persons of character who can play these roles is ubiquitous.

Requirements for B.S. in Data Analytics: 64 units

Required Lower-Division Courses: 32 units

CS 010 Introduction to Computational Problem Solving (4)
CS/MA 015 Discrete Mathematics (4)
CS 030 Introduction to Object Oriented Data Structures (4)
EB 010 Principles of Microeconomics (4) (Recommended)
EB 020 Introduction to Business Analytics (4)
MA 005 Introduction to Statistics (4)
MA 009, 010 Calculus I, II (4,4)

Required Upper Division Courses: 28 units

CS 116 Artificial Intelligence (4)
CS 120 Design and Analysis of Algorithms (4)
CS 125 Database Design (4)
CS 128 Information Retrieval and Big Data (4)
EB 115 Game Theory (4)
EB 138 Applied Management Science (4)
One of the Following
- MA 130 Probability and Statistics (4)
- CS/MA 121 Introduction to Numerical Analysis (4)
- CS/MA 150 Approved Applied Topics Course (4)

Capstone Experience: 4 units

CS 195 Senior Seminar (4)

Additional Recommended Courses

MA 020 Linear Algebra (4)
SOC 160 Internet and Society (4)

Economics and Business

Professor E. Noell
Associate Professor R. Ifland (chair)
Assistant Professor R. Kim, K. McGuire, S. Owusu
Instructor C. Harmon

Description of the Major. The economics and business department equips students to serve and lead in dynamic settings with a major that is both distinctively broad by integrating the essential components of economics and business, and deeply engaging, by challenging students to address contemporary issues with critical thinking, personal conviction, and a Christian perspective.

Distinctive Features. The department of economics and business offers a rigorous undergraduate curriculum that explicitly integrates a decidedly Christian perspective to a broad range of concepts and terminology from both the economics and business fields of study. The college and faculty are committed to the classic liberal arts by educating the whole person for a lifetime of learning and growth (personally, spiritually, and professionally). Many institutions offer separate degrees in economics or business. Westmont intentionally blends these academic fields to demonstrate the timeless synergies between the core tenets of economic theory, and the functional disciplines of business, such that models, graphs, terminology, constructs, and simulations are explored from the integrative perspectives of both the economist and the business leader or manager.

Career Choices. Study of the indivisible interaction of economics and business within a liberal arts framework is designed specifically for full-time, residential, undergraduate students, grounding them in the noblest competencies related to all types of economic activity and enterprise development, in both public and private sectors, including but not limited to: critical thinking, problem-solving, quantitative analysis, writing, speaking, original inquiry, and decision-making. The department is not a business school within a university, and does not offer *majors* such as: accounting, economics, finance, and marketing. The *Wall Street Journal* and other publications often reports that a broad, interdisciplinary liberal arts education is preferred for future CEOs by blending knowledge of history, culture, philosophy, and economic policy, with international experience and problem-solving skills.

Requirements for a Major: 53 units

During the first two years, students complete 24 units of lower-division introductory courses:

EB 003 Principles of Accounting (4)
EB 010 Principles of Microeconomics (4)
EB 011 Principles of Macroeconomics (4)
One of the following: (4)
    EB 020 Introduction to Business Analytics (4)
    EB 030 Principles of Corporate Finance (4)

EB 080 Principles of Management (4)
MA 005 Introduction to Statistics (4)

During the final two years, students take 9 units of required upper-division courses:

EB 102 Intermediate Microeconomics (4) *or* EB 137 Intermediate Macroeconomics (4)
EB 190 Internship (4), EB 196 Decision Lab (4) *or* EB 198 Research (4)
EB 195 Senior Seminar (1) taken the last semester on campus

Students choose 20 units of elective courses (five 4-unit courses) including but not limited to the following courses:

EB 103 History of Economic Thought (4)
EB 105 Business Law (4)
EB 106 Environmental and Natural Resource Economics (4)
EB 107 Business at the Bottom of the Pyramid (4)
EB 115 Game Theory (4)
EB 116 Antitrust and Regulatory Environment of Business (4)
EB 117 Economic Analysis of Law (4)
EB 120 American Economic History (4)
EB 125 Topics in Accounting (4)
EB 130 Financial Statement Analysis and Earnings Management (4)
EB 135 Money, Banking and Financial Markets (4)
EB 138 Applied Management Science (4)
EB 140 Seminar: Executive Leadership (4)
EB 142 China, India, and Other Asian Economies (4)
EB 148 Theology and Economics of Wealth and Poverty (4)
EB 150 Topics in Business (4)
EB 160 Principles of Marketing (4)
EB 190 Internship (2-4)
EB 191 Entrepreneurship and New Venture Development (4)
EB 192 Change and Innovation (4)
EB 198 Research (4)
EB 199 Major Honors (4)

Electives may be taken in any combination, based upon individual interests, allowing students to develop an *emphasis* such as: economics, entrepreneurship and innovation, accounting and finance, marketing and management, pre-law or international business. Students may earn 12 units of upper-division electives in the Europe-based International Business Institute, which includes visits to eight or more countries, and presentations by management and senior executives at venues such as: Nestle, Goldman Sachs, Finland Bank, Daimler-Benz, and the British Parliament. Students may earn up to 9 units of upper-division electives studying for one semester, for example, at either King's College London or The American University of Paris. In London, EB students enroll in the Management Department for three upper-division courses (3000-4000 level) consisting of one upper-division required course in either intermediate economics or management, or applied management science, plus two upper-division electives, and one course in a foreign language. Study in London is open to Westmont students with junior standing

for Fall or Spring; those with senior standing can attend Fall term only. In Paris, EB students enroll in the Economics Department and/or the International Business Administration Department for three or four upper-division courses (4000 level). In addition, students in Paris take one course in French. Other off-campus semester programs for economics and business majors include Westmont in San Francisco, Westmont Downtown, or affiliate programs in Washington D.C., with internship placements in an economics- or business-related organization or firm.

Many students complete a second major or minor in: mathematics, foreign language, philosophy, communication studies, data analytics, or computer science.

Requirements for a Minor: 24 units

Required Lower-Division Courses: 12 units

EB 003 Principles of Accounting (4)
EB 010 Principles of Microeconomics (4)
EB 011 Principles of Macroeconomics (4)

Required Three Upper-Division Courses: 12 units

Lower-Division Course Descriptions

EB 003 Principles of Accounting (4) An introduction to accounting and construction of financial statements developed by basic concepts and techniques used in accounting.

EB 010 Principles of Microeconomics (4) An introduction to economic analysis with emphasis on the theory of firm and consumer behavior and the role of government in the microeconomy.

EB 010H Principles of Microeconomics: Honors (4) Prerequisite: By invitation only. An advanced section of Principles of Microeconomics incorporating greater emphasis on oral reports, writing assignments, and more advanced readings with close supervision by the instructor. Special attention will be given to current economic policy issues.

EB 011 Principles of Macroeconomics (4) Prerequisite: EB 010. An introduction to economic analysis with an emphasis on the dynamics of national income and monetary and fiscal policy.

EB 011H Principles of Macroeconomics: Honors (4) Prerequisite: EB 010 and by invitation only. An advanced section of Principles of Macroeconomics incorporating greater emphasis on oral reports, writing assignments, and more advanced readings with close supervision by the instructor. Special attention will be given to current economic policy issues.

EB 020 Introduction to Business Analytics (4) Prerequisite: MA 005. Develop a working knowledge of quantitative research and forecasting, including data types, methods, models, and analysis-interpretation; develop working knowledge of how to build curvilinear models and forecasts for companies, including pricing functions, demand curves, revenue, cost functions, and profitability. Emphasis is placed on using multivariate regression analysis and applied business calculus to examine a wide range of marginal analyses, and to develop proficiency building/using spreadsheets/macros and graphing functions.

EB 030 Principles of Corporate Finance (4) Prerequisite: EB 003. An introduction to corporate finance theory, working capital, debt and equity, capital budgeting, capital structure, financial analysis, mergers and acquisitions, leasing, and financial forecasting.

EB 080 Principles of Management (4) An exploration of the responsibilities, opportunities and challenges of contemporary management. This course provides an overview of the central concepts of management, as segmented into the core functions, skills and processes of management theory, and brought to life by case studies that provide students the opportunity to grapple with practical management dilemmas. This class will serve as a training ground for thinking managerially, and for considering what it takes to be an excellent manager.

Upper-Division Course Descriptions

EB 102 Intermediate Microeconomics (4) Prerequisites: EB 003, EB 010, and EB 020 or EB 030 and MA 005. Analysis of the price system as applied to consumer behavior, theory of the firm, product market structures, and resource markets. Includes the consideration of the competitive market process, rent-seeking, market failure, the economics of information, and principal-agent relationships.

EB 103 History of Economic Thought (4) Prerequisites: EB 010 and EB 011. (Alternate years) A study of the origins and development of economic thought, emphasizing its inter-relationship to other disciplines, especially the other social sciences and Christian theology. Examines the economic thought of the ancients and medieval scholastics, as well as the development of modern political economy associated with figures such as Adam Smith, Karl Marx, J.M. Keynes, and Joseph Schumpeter.

EB 104 World Poverty and Economic Development (4) Prerequisites: EB 010 and EB 011. Examination of the issues of world poverty and economic development including income distribution, capital formation, informality, law and corruption, international trade, foreign aid, globalization and multinationals, financial crises, population growth, gender issues, agriculture, and education. An emphasis is placed on the neoclassical economic principles and economic evidence that point to causes of poverty and the path to economic development.

EB 105 Business Law (4) Prerequisites: EB 020, EB 030, or EB 080, and junior standing. Develops critical thinking skills with respect to the law and the business world from an interdisciplinary perspective as diversity of thought is valued. Fosters an active intellectual engagement with business legal questions in our contemporary

society through an enhanced understanding of legal terminology, the judicial system and how it applies to business in particular, and when it is time to seek legal advice and take preventative law steps. Topics covered include: legal rights and their enforcement in the civil and criminal setting; contract law; real property and personal property; sales and negotiable instruments; commercial paper; creditors rights; bankruptcy; agency and principal law; corporations, partnerships and limited liability companies; cyber law; intellectual property law, and international laws.

EB 106 Environmental and Natural Resource Economics (4) Prerequisite: EB 010. Economic principles for understanding complex environmental and natural resource issues and providing a foundation for innovative policy solutions. Special attention is paid to the debate between the neoclassical and ecological perspectives.

EB 107 Business at the Bottom of the Pyramid (4) Prerequisites: EB 003, EB 010, EB 011, and junior standing. The fundamentals of business formation and strategy applied to some of the deepest needs in the world. This class travels to Haiti during the Spring semester to launch companies.

EB 115 Game Theory (4) Prerequisites: EB 003 or EB 010, and EB 020 or EB 030. An introduction to non-cooperative game theory. Topics include simultaneous play games, sequential play games, repeated games, and incomplete information games.

EB 116 Antitrust and Regulatory Environment of Business (4) Prerequisites: EB 010. The influence of government on business with special emphasis on market structure, industrial organization, and antitrust policy.

EB 117 Economic Analysis of Law (4) Prerequisite: EB 010. Broadly, the course is designed to learn how to think as an economist about legal rules; to evaluate alternative legal rules against standards of economic efficiency and distributive justice; and to understand the nature of the legal process and several specific areas of the law. With the use of alternative texts, both deductive and inductive reasoning will be employed to study the formation and interpretation of legal rules.

EB 120 American Economic History (4) Prerequisites: EB 010 and EB 011. Examines the development of the American economy, from the colonial period to the twenty-first century, in order to understand sources of economic growth. Special attention is given to understanding the significance of economic institutions in particular economic issues, including the Constitution, technological change, slavery, the changing roles or women and African-Americans in the economy, immigration, industrialization, warfare, increasing scope of government, the labor union movement, changes in antitrust and labor law, macroeconomic fluctuations, and the role of the U.S. in the global economy.

EB 125 Topics on Accounting (4) Advanced accounting topics will be selected from year to year, including income tax theory and practice, and intermediate accounting.

EB 130 Financial Statement Analysis and Earnings Management (4) Prerequisite: EB 003. Advanced financial statement analysis and earnings management of private and public corporations, including how Chief Financial Officers can use financial statements to alter stock prices, financing alternatives and liquidity.

EB 131 Corporate Financial Management (4) Prerequisite: EB 020 or EB 030. Corporate finance theory, working capital, debt and equity, capital budgeting, capital structure, financial analysis, mergers and acquisitions, leasing, and financial forecasting.

EB 132 Investments and Portfolio Management (4) Prerequisites: EB 003, EB 080, and EB 020 or EB 030. Risk and return, stocks, bonds, options, commodity and index futures, real estate, mutual funds, technical and fundamental analysis, money markets, modern portfolio theory, arbitrage, and asset allocation.

EB 135 Money, Banking and Financial Markets (4) Prerequisites: EB 010, EB 011, and MA 005. Analysis of the functioning and significance of money and capital markets, financial institutions, and financial instruments. Examines the role of financial innovation and government regulation in relationship to the U.S. banking industry, nondepository financial institutions, the Federal Reserve System, and the international financial system. Explores the significance of hedging instruments and regulatory intervention with respect to financial crises.

EB 137 Intermediate Macroeconomics (4) Prerequisites: EB 010 and EB 011. The study of aggregate economic activity. Analyzes inflation, employment, and growth policies of Classical and Keynesian schools through the use of macromodels.

EB 138 Applied Management Science (4) Prerequisites: EB 003 or EB 010, and EB 020 or EB 030. Managerial use of microeconomic models and quantitative techniques including probability, optimization, forecasting, econometrics, linear programming, utility tests, production models, exponential and logarithmic functions, derivatives, and decisions under uncertainty.

EB 140 Executive Leadership (4) Prerequisite: EB 080. Study of both leadership and management, including the roles of the Chief Executive Officer, the Board of Directors and the Top Management Teams and how they use various strategies to lead during times of uncertainty or transition.

EB 142 China, India, and Other Asian Economies (4) Prerequisites: EB 010 and EB 011. Examines the features, structure, challenges, and prospects of major Asian economies in a global comparative perspective. Analyzes the ascent of primary East and South Asian economies in the past half-century, economic reform measures, and the current transformation of their competitive role in the global economy. Explores trade and currency policy, export strategies, and technological innovation in manufacturing and service sectors, as well as poverty, income inequality, environmental, and demographic issues facing these Asian economies.

EB / RS 148 Theology and Economics of Wealth and Poverty (4) Prerequisites: RS 001 and RS 010. Provides a historical examination of the ways Christians have interpreted, applied, and struggled with the Christian mandate regarding wealth and poverty. Discusses the economics of ancient Israel and first-century Roman Palestine in a consideration of Jewish (OT) and Greco-Roman backgrounds, New Testament teachings on wealth and poverty and subsequent interpretations. Analyzes the economic, cultural and theological elements of the historical development of Christian teaching on wealth and poverty.

EB 150 Topics (2-4) Prerequisites: EB 010 and EB 011. Special topics in economics or business offered on a rotating basis.

EB 160 Principles of Marketing (4) An applied exploration of the principles, concepts, strategy and tactics of marketing. This course provides an overview of marketing, understood as the empathetic art of building relationships between products and services and unique consumers, businesses and markets. Abstract theory and concepts are brought to life by case studies, examples and developing a comprehensive plan from Executive Summary to completion. This class serves as a proving ground for thinking critically about marketing, creating and executing ideas, and examining the current trends of modern marketing.

EB 161 International Marketing (4) Prerequisite: EB 080. Theory and practice of international marketing management. (International Business Institute)

EB 170 Auditing (4) Prerequisite: EB 003. Concepts of auditing businesses, including analysis of financial statements and ethical considerations, with emphasis on the principles needed for the CPA examination.

EB 184 Globalization: Economic History, Controversy, and Prospects (4) Prerequisites: EB 010 and EB 011. Explores the process of globalization, by means of examining various eras of globalization and possible lessons for modern controversies. Considers the growth of major European economies as economic powers and the interaction between protectionism and global economic integration. Special emphasis is placed on changes in international monetary standards and exchange-rate policy in Europe, Asia, and Latin America, the controversial roles of the World Bank, IMF, WTO, and multinational corporations in relation to trade, the environment and global poverty, and the development of the European Monetary Union. Prospects for the world economy and particular global economic challenges facing Christians are examined. (International Business Institute)

EB 185 International Trade and Finance (3) An introduction to analysis of international trade, international finance, and economic integration. (International Business Institute)

EB 186 Seminar on International Business Policy (3) The multinational firm in the world economy, international business strategy, organizational behavior, and international investment. On-site presentations by leaders of multinational and international firms. (International Business Institute)

EB 187 Comparative Economic Systems (3) Analytical and historical comparison of various major economic systems. (International Business Institute)

EB 190 Internship (2-4) Designed to help students answer two basic questions: 1) What type of career, and work environment, best fits me? and 2) What does it take to excel in such a role? These questions are answered most effectively by immersion in a local organization approximating the student's ideal. This course offers a unique opportunity to explore personal ambitions in a practical work environment. Some internship placements may also satisfy the GE requirement for *Serving Society; Enacting Justice*, if anchored in a non-profit.

EB 191 Entrepreneurship and New Venture Development (4) Prerequisites: EB 003 and EB 080. The role and processes of new venture development applied to some of the world's deepest needs. Each team develops an in-depth business plan to meet some of the deepest needs in the world, working closely with people on the ground. Each team then sends their completed plan to the entity for implementation. Topics

include: writing business plans, strategic management, venture capital, and the unique legal and tax issues of small to medium enterprises. The course culminates with an oral presentation where each student venture team makes formal presentations to an outside panel of reviewers who are successful entrepreneurs, investment bankers, hedge fund managers, angel investors, and venture capitalists.

EB 192 Change and Innovation (4) Prerequisites: EB 003 and EB 080. Seminar style course focused on reading five or six contemporary authors as a follow-up to EB 191 (Entrepreneurship and New Venture Development). The emphasis is on industry analysis within various technology sectors of the economy. Defines the primary economic tenets and freedoms of the American private enterprise system, and the impacts (negative and positive) that emerging change and innovation have on the stability and viability of firms within specific industries. Topics include: types and forms of change, the role of process innovation, emergence of intellectual capital, the impact of IT, principles of strategic management in response to change, and ethics and issues of successful change and transition management.

EB 195 Senior Seminar (1) Prerequisite: Senior standing, taken during the last semester on campus. Topics related to the transition to the world of economics and business, from an ethical perspective.

EB 196 Decision Lab (2) Prerequisites: EB 020 and EB 138 (can be taken concurrently) and instructor approval. Supervised field application of decision analysis and/or techniques. Students will model decisions, gather and analyze data, deliver written and oral presentations of their work. Involves both field and instructional activities.

EB 198 Research (2-4) Students have the opportunity to complete a semester-long independent research project under the direction of one or more Economics and Business faculty, and may be awarded two, three, or four units of upper-division elective credit toward the major. The student proposes the research thesis and project completion agenda to the selected faculty member(s), and meets regularly during the semester as the project advances through the research stages. Upon completion, the student makes a formal presentation to the department faculty, which is announced as an open forum for students and faculty from across campus to attend.

EB 199 Major Honors (4-6) By approval only. An advanced section of research where students have the opportunity to complete a year-long independent research project under the direction of one or more Economics and Business faculty. The student proposes the research thesis and project completion agenda to the selected faculty member(s), and a final proposal is submitted for consideration to the Academic Senate Review Committee. Once approved, the student and faculty chair meet regularly during the year as the project advances through the research stages. Upon completion, the student makes a formal presentation to the department faculty, which is announced as an open forum for students and faculty across campus to attend.

Education Program

Professor A. Mullen
Associate Professor C. Mitten (chair)
Assistant Professor S. Hawkins

***P*rogram Description:** Well-educated persons want to share their education with others. It's no surprise, then, that graduates of liberal arts colleges such as Westmont have historically been attracted in large numbers to elementary and secondary classrooms. A career in K-12 education allows one to share one's knowledge and wisdom with others, but perhaps even more important—to share oneself.

Teaching at any level is a demanding profession, and requires rigorous preparation. This includes academic and professional preparation at a liberal arts college such as Westmont, where students are encouraged to develop themselves as whole, well-rounded persons, is an ideal environment to undertake such preparation. The task of preparing teachers becomes in one sense, then, the responsibility of the entire college. All courses and experiences on and off campus are potential contributions to the education of a prospective teacher, and should be approached by students in that spirit.

In the Department of Education, we bear a special responsibility for mentoring prospective teachers and guiding them in the transition from student to teacher. We work closely with other academic departments on campus responsible for the subject matter preparation of teachers. We seek to integrate that subject matter into our lives and to develop skills in sharing subject matter with adolescents and children. The department takes great pride in the reputation we have developed in the community and the region for sending out well-prepared, highly professional teachers.

***P*rogram Offerings:** Westmont's Department of Education offers programs leading to both elementary (Multiple Subject) and secondary (Single Subject) credentials. **Prospective elementary teachers** at Westmont typically major in Liberal Studies, which in California refers to a multi-disciplinary program specifically designed for elementary teaching candidates. After completing the Liberal Studies major and meeting state-required Basic Educational Skills and Subject Matter Competency requirements, candidates apply to the one-year Teacher Credential Program to earn a Multiple Subject Credential (typically used K-6). At Westmont, students who plan carefully can complete both the Liberal Studies major and the credential program in four years. For details see the Liberal Studies program.

Prospective secondary teachers generally major in the subject area they wish to teach while taking some pre-requisite courses for the Teacher Credential Program. In their junior or senior year, they demonstrate content knowledge with their Bachelor's Degree or by passing the CSET in order to enroll in a Teacher Credential Program. If schedule permits, secondary teaching candidates may qualify for teaching an additional subject beyond their major field.

Westmont is approved by the California Commission on Teacher Credentialing to offer Single Subject credentials in English, History-Social Science, Mathematics, the Sciences (general and specialized), Art, Physical Education, Spanish, and Music. (a Bachelors of Music (Pre-Teaching Credential) is also offered).

All teacher candidates, elementary and secondary, should note that requirements for entrance to state-approved credential programs, as well as credential requirements themselves, are subject to change by California's Commission on Teacher Credentialing (CTC) on short notice. It is imperative to stay in close touch with your academic advisor to stay up on current regulations.

Early planning is essential for secondary candidates. Students considering such a profession should alert their academic advisor as soon as possible after arriving at Westmont, and also notify the Department of Education chair.

***P*rogram Distinctives:** With careful planning and (in many cases) extra classes over the summer, it is possible to complete both the subject-area requirements and the Teacher Credential Program in four years.

Personal, one-on-one advising guides candidates through the complex maze of state requirements leading to a teaching credential. Program personnel are consistently available and responsive to individual student questions.

A scholarship equal to a 55% reduction in tuition is given during the semester of student teaching to students who have completed the B.A. degree and who live off campus. Note that this is given in lieu of other Westmont scholarships the student may have received previously.

Multiple Subject Credential Requirements (Elementary)

Candidates for the Multiple Subject Credential typically complete a Liberal Studies major. Whatever major is selected, candidates must provide evidence that verifies they meet state-required Subject Matter Competency requirements (see options at https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)). Candidates must apply to the Teacher Credential Program to be considered for acceptance.

Required methods courses:

ED 110 Educational Psychology (4)
ED 120 Social Studies and Science Instruction in Diverse Elementary Classrooms (4)
ED 130 Special Education for the Classroom Teacher (2)
ED 150 Math Instruction for All Students in Diverse Elementary Classrooms (4)
ED 170 Reading and Language Arts Instruction in Diverse Elementary Classrooms (4)
ED 190 Student Teaching (12)
ED 195 Student Teaching Seminar (3)

Required support courses:

(Normally these are taken prior to entering the Credential program, but one of these courses may be taken simultaneously while in the program):

ED 100 Explorations in Teaching (4)
ED 105 Perspectives on Cultural Diversity and Education (4)
ED 160 Technology for the Classroom Teacher: Elementary (2)
ENG 106 Language Acquisition (4)

KNS 156 Health Education for the Classroom Teacher (2)

Note that candidates must also demonstrate knowledge of the U.S. Constitution (by completing POL 010; or passing an approved examination, available through the Westmont Department of Education) and complete CPR training/certification (infant/child/adult level). Certification must be valid at the time of application for credential—see Program Assistant for details.

In addition to tests required for entry to the Credential program, elementary candidates must also pass a state literacy performance assessment, in order to receive their California credential.

All candidates must pass the California Teaching Performance Assessment (CalTPA Cycle I and Cycle II) prior to being recommended for a teaching credential.

Single Subject Credential Requirements (Secondary)

Candidates for the Single Subject Credential must provide evidence that verifies they meet state-required Subject Matter Competency requirements (see options at https://www.ctc.ca.gov/educator-prep/subject-matter-requirements) and Basic Education Skills requirements (see options at https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)).
Candidates must apply to the Teacher Credential Program to be considered for acceptance.

Required courses:

ED 101 Explorations in Teaching: Culturally Diverse Secondary Schools (4)
ED 111 Educational Psychology (4)
ED 151 Curriculum, Classroom Management, and Instruction in Diverse Secondary Classrooms (2)
ED 171 Content Area Literacy in Diverse Secondary Classrooms (4)
ED 191 Student Teaching: Secondary (12)
ED 196 Student Teaching Seminar (3)
One of the following:
ED 122 English Curriculum and Instruction (4)
ED 123 History/Social Science Curriculum and Instruction (4)
ED 124 Mathematics Curriculum and Instruction (4)
ED 125 Science Curriculum and Instruction (4)
ED 126 Spanish Curriculum and Instruction (4)
ED 127 Art Curriculum and Instruction (4)
ED 128 Music Curriculum and Instruction (4)
ED 129 Physical Education Curriculum and Instruction (4)

Required support courses

(Normally these are taken prior to entering the Credential program, but one or two of these may also be taken simultaneously with the program):
ED 105 Perspectives on Cultural Diversity and Education (4)
ED 130 Special Education for the Classroom Teacher (2)

ED 161 Technology for the Classroom Teacher: Secondary (2)
ENG 106 Language Acquisition (4)
KNS 156 Health Education for the Classroom Teacher (2)

Candidates must also demonstrate knowledge of the U.S. Constitution (by completing POL 010; or passing an approved examination, available through the Westmont Department of Education) and complete CPR training/certification (infant/child/adult-level). Certification must be valid at the time of application for credential—see Program Assistant for details.

Candidates must pass the California Teaching Performance Assessment (CalTPA Cycle I and Cycle II) prior to being recommended for the credential.

Admission Procedures (For students completing a credential program, elementary or secondary, as part of their Westmont undergraduate degree)

1. Submit an online application with the Department of Education during the junior or senior year by February 15.
2. Obtain a Teacher Credential Program handbook from the Department of Education. This handbook provides further details on all requirements.
3. See Application Checklist on the department website

Formal Admission. The Teacher Education Admissions Committee bases admission to the teacher preparation program upon:

1. Academic qualifications
   a. Minimum GPA of 3.00
   b. Evidence of Subject Matter Competency (see options at https://www.ctc.ca.gov/educator-prep/subject-matter-requirements)
   c. Evidence of Basic Educational Skills (see options at https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667))
2. Junior standing or above
3. Completion of ED 100 or ED 101, or evidence of 100 contact hours with children or adolescents
4. Personal recommendations by faculty
5. Certificate of Clearance required by the Commission on Teacher Credentialing
6. Health requirement required by the Commission on Teacher Credentialing (TB test and if positive test, then chest x-ray)

Student Teaching. Prior to approval for student teaching, the teacher candidate must:

1. Complete all courses required in the teacher preparation program
2. Maintain a 3.10 GPA in the semester prior to student teaching
3. Complete all application forms, including the one for student teaching

4. Qualify for senior status or be officially admitted to the advanced studies program

Candidates who meet these eligibility requirements must be formally accepted into Student Teaching in December by action of the Department of Education Chair, in consultation with full-time members of the Education faculty.

Appeal Process. Candidates who are not accepted into full-time Student Teaching may appeal to the Education Program Advisory Committee (which includes, ex officio, College Registrar, Vice President of Enrollment, Marketing, and Communications, Department of Education Chair, and a full-time member of the Westmont faculty outside of the Department of Education.

Non-Continuance of Student Teaching. Once accepted into Student Teaching, a decision to dismiss a candidate from the program is undertaken only in extreme cases. Among other criteria for a decision leading to non-continuance:

- Evidence that the safety or welfare of K-12 students is at risk.
- Evidence of insubordination with supervisor(s), cooperating teacher(s), or other professionals.
- Evidence of a pattern and/or failure to prepare for or execute assigned responsibilities.
- Evidence of ineffectiveness and/or inability to manage and/or teach.

The decision is made by the Department of Education Chair, in consultation with full-time members of the Education faculty, college supervisor(s) and cooperating teachers(s).

Fifth Year: Advanced Studies Program (Elementary or Secondary)

Graduates of Westmont or other colleges who choose not to earn their credential as part of their four-year program have the option of completing a fifth-year, post-baccalaureate program at Westmont.

Teacher candidates planning to enroll in the fifth year program should complete as many of the following requirements as possible, at Westmont or elsewhere, prior to beginning the fifth year. Normally, one to three of these courses (up to 6 credits) may be taken as part of the fifth year.

ED 100/101 Explorations in Teaching (4)

ED 105 Perspectives on Cultural Diversity and Education (4)

ED 130 Special Education for the Classroom Teacher (2)

ED 160/161 Technology for the Classroom Teacher (2)

ENG 106 Language Acquisition (4)

KNS 156 Health Education for the Classroom Teacher (2)

Course or test demonstrating knowledge of the U.S. Constitution (Westmont administers an examination, which may be taken by Westmont students up to two times without cost. There is a fee of $50 for subsequent administrations.)

Admission Requirements for Advanced Studies

1. Hold a baccalaureate degree from an accredited college with a 3.0 GPA (four point scale).
2. Submit online application no later than February 1. There is no application fee.
3. Submit official college transcripts from every institution attended and all relevant test scores to the Department of Education. Demonstration of meeting the basic skills and subject matter competencies is required (see handbook for details).
4. Attend an interview if requested.
5. Sign statement acknowledging Community Life Expectations.
6. Additional requirements are delineated in the Teacher Credential Program Handbook.
7. A $300 deposit (payable to Westmont College but submitted to the Department of Education) is due by May 1 to reserve your space. Continuing Westmont students may transfer their initial deposit to Westmont College by contacting the Business Office. Notification of admissions decisions typically occurs by late March.

For other details and questions about the fifth-year program, contact the Department of Education. Students wishing to apply for financial aid should contact Westmont's Financial Aid Office directly.

Fifth-year candidates who hold a B.A. degree, live off campus, and are not enrolled in classes on campus, will receive a scholarship equal to a 55% reduction in tuition during the semester they do student teaching.

Course Descriptions

ED 011 Windows Into Teaching (1) This 1-unit seminar offers a window into the field of teaching. Recommended for students considering teaching as a career. Explores dispositions needed to succeed in teaching, professional opportunities available for educators, and steps to obtaining a teaching credential at Westmont. Exemplary educators will share about their experiences in the field.

ED 100 Explorations in Teaching: Elementary (4) An introduction to contemporary educational issues, with an emphasis on understanding how teaching and learning are impacted by forces outside the classroom. A 40-hour field experience in an ethnically and/or socio-economically diverse classroom in or near Santa Barbara is a major component of the course. State-approved fingerprinting (fee) is required, along with evidence of TB testing, in order to begin field experience.

ED 101 Explorations in Teaching: Secondary (4) An introduction to contemporary educational issues, with an emphasis on understanding how teaching and learning are impacted by forces outside the classroom. A 40-hour field experience in an ethnically and/or socio-economically diverse classroom in or near Santa Barbara is a major component of the course. State-approved fingerprinting (fee) is required, along with evidence of TB testing, in order to begin field experience.

ED 105 Perspectives on Cultural Diversity and Education (4) Introduces students to the changing cultural diversity in California and issues of multicultural education relevant to K-12 schooling. Cross-cultural field experiences required.

ED 108 Mexican Schools Field Experience (2) Prerequisite: Approval of Education Chair and current WIM faculty leader. Internship offered in conjunction with the Westmont in Mexico program. Students interested in exploring teaching study the Mexican educational system and visit a variety of public and private school classrooms, including urban, rural, and indigenous settings. For ten weeks students serve as a teacher's aide, under the supervision of IUSI professionals.

ED 109 Liberal Studies Seminar (2) Capstone course for Liberal Studies majors. Focus will be the preparation and presentation of a comprehensive portfolio wherein students demonstrate academic achievement and reflection upon the major as a whole.

ED 110 Educational Psychology: Elementary (4) Introduces candidates to research-based concepts, principles, and theories of learning, management, and motivation and how that information applies to the full range of learners in diverse classrooms.

ED 111 Educational Psychology: Secondary (4) Introduces candidates to research-based concepts, principles, and theories of learning, management, and motivation and how that information applies to the full range of learners in diverse classrooms.

ED 130 Special Education for the Classroom Teacher (2) Covers needs of exceptional children in the area of diagnosis, program development, special learning needs and techniques, cultural and linguistic characteristics, material modification, social and career goals, professional services, and individual educational programs. Attention given to legislative requirements and parent involvement. Encompasses competencies required in Title 5 Regulations: Section 80032.2 and Section 44259 related to special education training for the classroom teacher.

ED 160 Technology for the Classroom Teacher: Elementary (2) Emphasis placed on hands-on experiences with software appropriate for elementary subjects and grade levels. Encompasses competencies required in Title 5 Regulations: Section 80422 related to computer education coursework.

ED 161 Technology for the Classroom Teacher: Secondary (2) Emphasizes hands-on experiences with software appropriate for secondary subjects and grade levels. Encompasses competencies required in Title 5 Regulations: Section 80422 related to computer education coursework required for the classroom teacher.

ED 172 Literature for Children and Adolescents (4) Survey of selected writing for children, representing different developmental stages, a range of world cultures, and major literary genres. Course themes include criteria for evaluating literature, relationship of literature to culture and society, and the utilization of literature in K-8 classrooms.

Enrollment in the following courses is limited to students who have been accepted in the Teacher Preparation Program.

ED 120 Social Studies and Science Instruction: Elementary (4) An introduction to developmentally appropriate instructional strategies, curriculum materials, and conceptual frameworks for teaching these subjects in the elementary classroom. Emphasis given to working with California K-6 content standards and adapting instruction to the needs of culturally and linguistically diverse learners.

ED 122 English Curriculum and Instructional Planning: Secondary (4) Offers an introduction to instructional strategies, curriculum, materials, the preparation of instructional plans, and conceptual frameworks specific to candidate's major content area. Emphasis given to working with California 7-12 content standards and adapting instruction to the needs of culturally and linguistically diverse learners. Fieldwork (15 hours) in a local public school is required.

ED 123 History/Social Science Curriculum and Instructional Planning: Secondary (4) Offers an introduction to instructional strategies, curriculum, materials, the preparation of instructional plans, and conceptual frameworks specific to candidate's major content area. Emphasis given to working with California 7-12 content standards and adapting instruction to the needs of culturally and linguistically diverse learners. Fieldwork (15+ hours) in a local public school is required.

ED 124 Mathematics Curriculum and Instructional Planning: Secondary (4) Offers an introduction to instructional strategies, curriculum, materials, the preparation of instructional plans, and conceptual frameworks specific to candidate's major content area. Emphasis given to working with California 7-12 content standards and adapting instruction to the needs of culturally and linguistically diverse learners. Fieldwork (15+ hours) in a local public school is required.

ED 125 Science Curriculum and Instructional Planning: Secondary (4) Offers an introduction to instructional strategies, curriculum, materials, the preparation of instructional plans, and conceptual frameworks specific to candidate's major content area. Emphasis given to working with California 7-12 content standards and adapting instruction to the needs of culturally and linguistically diverse learners. Fieldwork (15+ hours) in a local public school is required.

ED 126 Spanish Curriculum and Instructional Planning: Secondary (4) Offers an introduction to instructional strategies, curriculum, materials, the preparation of instructional plans, and conceptual frameworks specific to candidate's major content area. Emphasis given to working with California 7-12 content standards and adapting instruction to the needs of culturally and linguistically diverse learners. Fieldwork (15+ hours) in a local public school is required.

ED 127 Art Curriculum and Instructional Planning: Elementary and Secondary (4) Offers an introduction to instructional strategies, curriculum, materials, the preparation of instructional plans, and conceptual frameworks specific to candidate's major content area. Emphasis given to working with California 7-12 content standards and adapting instruction to the needs of culturally and linguistically diverse learners. Fieldwork (15+ hours) in a local public school is required.

ED 128 Music Curriculum and Instructional Planning: Elementary and Secondary (4) Offers an introduction to instructional strategies, curriculum, materials, the preparation of instructional plans, and conceptual frameworks specific to candidate's major content area. Emphasis given to working with California 7-12 content standards and adapting instruction to the needs of culturally and linguistically diverse learners. Fieldwork (15+ hours) in a local public school is required.

ED 129 Physical Education Curriculum and Instructional Planning: Elementary and Secondary (4) Offers an introduction to instructional strategies, curriculum, materials, the preparation of instructional plans, and conceptual frameworks specific to candidate's major content area. Emphasis given to working with California 7-12 content standards and adapting instruction to the needs of culturally and linguistically diverse learners. Fieldwork (15+ hours) in a local public school is required.

ED 150 Mathematics Instruction for All Students: Elementary (4) Explores the organization, planning, and instruction of mathematics curriculum in diverse elementary classrooms. The course includes content knowledge, developmental learning, and creative instructional strategies. Fieldwork (15+ hours) in a local public school is required.

ED 151 Curriculum, Classroom Management, and Instruction: Secondary (2) Functional concepts of learning, curricular content, instructional planning, teaching techniques, classroom management, and methods of diagnosing and evaluating student performance in culturally/linguistically diverse classrooms at the middle and high school levels. Includes exposure to the structure/role of central office administration, building principals and support staff/systems. Through on-site visits, guest lectures, and working with practitioners in local schools students develop lessons focusing on their particular subject matter disciplines. Includes field experiences.

ED 170 Reading and Language Arts: Elementary (4) Provides candidates with the knowledge, skills, and instructional strategies needed to assess, plan, and teach a comprehensive program of systematic instruction in reading, writing, listening and speaking to the full range of students in diverse elementary classrooms. Fieldwork (15+ hours) in a local public school is required.

ED 171 Content Area Literacy: Secondary (4) Examines literacy as it applies to the study and acquisition of subject matter content. This course provides candidates with the knowledge, skills, and instructional strategies needed to assess, plan, and teach content-based literacy skills to a full range of students in diverse secondary classrooms. Fieldwork (15+ hours) in a local public High school is required.

ED 180 Topics in Education: Elementary (1-4) Prerequisite: approval of the instructor. Content as announced.

ED 181 Topics in Education: Secondary (1-4) Prerequisite: approval of the instructor. Content as announced.

ED 190 Student Teaching: Elementary (12) Requires completion of all prerequisites to student teaching. Candidates student teach for a semester in culturally diverse elementary schools. (P/NC grading only)

ED 191 Student Teaching: Secondary (12) Requires completion of all prerequisites to student teaching. Candidates student teach for a semester in culturally diverse secondary schools. **Student teaching continues beyond the close of Westmont's spring semester.** (P/NC grading only)

ED 195 Student Teaching Seminar: Elementary (3) Registration is concurrent with ED 190. Weekly seminars focus on issues relevant to student teaching in culturally diverse settings.

ED 196 Student Teaching Seminar: Secondary (3) Registration is concurrent with ED 191. Weekly seminars focus on issues relevant to student teaching in culturally diverse settings.

Education Minor

Associate Professor C. Mitten (chair)

Description of the Minor. The education minor is designed to introduce students to the landscape of K-12 education in the 21st century. Students will explore the foundations of public education and a wide range of educational issues. The minor is especially designed for students considering a career in education and includes all of the prerequisite courses for the Westmont Teaching Credential Program. All majors are welcome to add a minor in education, with the exception of Liberal Studies and Music Education majors.

Requirements for a Minor: 20 - 22 units

Required Courses: 18 units

One of the following: (4)
- ED 100 Explorations in Teaching: Elementary (4)
- ED 101 Explorations in Teaching: Secondary (4)

One of the following: (2)
- ED 160 Technology for the Classroom Teacher: Elementary (2)
- ED 161 Technology for the Classroom Teacher: Secondary (2)

ED 105 Cultural Diversity (4)
ED 130 Special Education for the Classroom Teacher (2)
ENG 106 Language Acquisition (4)
KNS 156 Health Education for the Classroom Teacher (2)

Elective: 2-4 units

Upper-division course approved by the Education Department Chair

Engineering

Professors A. Goodworth, R. Haring-Kaye, D. Jensen (Chair)
Instructor W. Allison

***D*escription of the Major**. Westmont's engineering program grants a General Engineering degree.

***D*istinctive Features**. Westmont Engineering is built on three pillars:

1. Excellence in technical engineering training learned in small classes, focused on hands-on, active learning, with faculty that are very engaged with their students,
2. Integration of Engineering Design and Innovation throughout the curriculum, and
3. A solid Christian liberal arts foundation.

***C*areer Choices**. Those with a general engineering degree have tremendous breadth in what they are qualified to do. MEs have opportunities in industries such as design, energy, sustainability, environmental resources, robotics, automation, vehicle design, biomedical design, aeronautics, space, manufacturing and internet of things (IoT).

Requirements for a B.S. in Engineering: 86 units

Required Engineering Courses: 50 units

EN 005 Engineering and the Liberal Arts (3)
EN 030 Materials Engineering (3)
EN 040 Mechanics of Materials (3)
EN 050 Statics and Engineering Software (3)
EN 055 Dynamics (4)
EN 080 Junior Design (3)
EN 100 Control Systems (3)
EN 110 Fluid Mechanics (3)
EN 120 Thermodynamics (4)
EN 140 Instrumentation and Measurement (3)
EN 142 Circuits and Electronics (4)
EN 143 Electronics Laboratory (1)
EN 150 Manufacturing Processes (3)
EN 160 Machine Design (3)
EN 180 Senior Design Capstone I (3)
EN 181 Senior Design Capstone II (3)
EN 196 Seminar I: Faith, Technology, and Christian Responsibility (1)

Additional Technical Electives: 6 units

CHM 006 General Chemistry II (4)
CS 010 Introduction to Computational Problem Solving (4)
CS 015 Discrete Mathematics (4)
CS 030 Introduction to Object Oriented Data Structures (4)
KNS 101 Biomechanics (4)
MA 005 Introduction to Statistics (4)
MA 121 Introduction to Numerical Analysis (4)
MA 140 Complex Analysis (4)
EN 171 Computational Modeling in Engineering (3)
EN 187 Engineering Biomechanics (3)
EN 190 Internship (2)
PHY 025 Modern Physics (4)
PHY 150 Electricity and Magnetism (4)

Other elective options may be available

Required Courses from Math and Science: 30 units

CHM 005 General Chemistry I (4)
MA 009, 010 Calculus I, II (4, 4)
MA 019 Multivariable Calculus (4)
MA 040 Differential Equations with Linear Algebra (4)
PHY 021, 023 General Physics I, II (4, 4)
PHY 022, 024 General Physics Laboratory I, II (1, 1)

Lower-Division Course Descriptions

EN 005 Engineering and the Liberal Arts (3) An introduction to engineering focusing on the development of creative thinking, problem-solving skills, ethics, and the importance of the liberal arts to engineering. Students team up on projects learning collaborative skills and are exposed to various engineering disciplines and practices including CAD software, electronics, and 3d printing. Guest speakers provide a variety of career paths and experiences.

EN 030 Materials Engineering (3) Prerequisite: EN 040. This course provides an introduction to primary materials used in engineering (metals, ceramics, polymers, and composites). The foundation for material properties is described from the foundation of atomic and crystalline structure, phase diagrams, imperfections, and diffusion. Materials processing methods such as heat treatment and cold working are discussed. Material properties are described in terms of elastic and plastic deformation, and failure modes of fatigue, creep, and corrosion. Environmental, social, historical, experimentation, and current application will be integrated within each major topic in the course.

EN 040 Mechanics of Materials (3). Prerequisite: EN 050. This course is the first course in the understanding of solid, but deformable, body mechanics. It is essential

for the prediction of structural failure of items made of solid, deformable materials. This course is a prerequisite to Materials Engineering, Mechanical Design and any further study in deformable mechanics. The course covers basics of stress and strain for bars, beams, columns and pressure vessels as well as many combined loading situations. Stress and strain transformations are introduced in order to study material failure criteria.

EN 050 Statics and Engineering Software (3) Prerequisites: MA 009 and PHY 021. Focuses on the study of systems in equilibrium. Topics include two and three dimensional force-moment systems, equivalent systems, free body diagrams; equilibrium problems involving trusses, structures, machines, distributed force systems, friction; shear and moment diagrams, moment of inertia, energy methods. Both analytical and numerical methods will be used in this course.

EN 055 Dynamics (4) Prerequisites: MA 009, MA 010, EN 050, and PHY 021. This course provides theory and application of engineering dynamics. Problem solving skills are emphasized across a broad range of applications. Topics include a calculus and vector-based analysis of kinematics of particles (rectilinear and curvilinear), acceleration, energy, momentum, impact, planar motion, kinematics of rigid bodies, force and acceleration, and vibration. Relevance of engineering dynamics to society is also included.

EN 080 Junior Design (3) Prerequisite: Junior standing and EN 005 or instructor approval. This course provides theory and application of engineering design. We will cover a cutting-edge design process and methods called Design Innovation. The course will implement this process to design a product, process, or service for a stakeholder. This will be a technical service-oriented project; likely designing for under-resourced stakeholders. The class will involve work in small design teams and will necessitate working to gain deep understanding of, and empathy for, those we are designing for. We will produce design process artifacts as well as functional prototypes. Clear correlation to Christian values of helping others will be a constant focus.

Upper-Division Course Descriptions

EN 100 Control Systems (3) Prerequisite: MA 040 and EN 055. This course provides the fundamentals of engineering control systems theory and applications. Topics include dynamic models, transfer functions, control analysis, transient response and steady-state behavior, feedback loops and stability analysis, root locus and frequency response methods. The course emphasizes problem-solving skills and computer simulations (MATLAB and SIMULINK) for system analysis and design.

EN 110 Fluid Mechanics (3) Prerequisite: MA 019 and EN 120. Fluid statics and dynamics. Integral and differential forms of continuity, momentum and energy laws for incompressible flows. Integral and differential formulations, Bernoulli's equation, steady and transient fluid motion. Theory/experimental and computational approaches compared.

EN 120 Thermodynamics (4) Prerequisite: EN 055 and PHY 023. The first and second law of thermodynamics. Energy and entropy concepts. Equations of state and state

diagrams. Process analysis. Thermodynamics is applied to systems and cycles for power generation, refrigeration and heat pumping. Device performance and efficiency.

EN 140 Instrumentation and Measurement (3) Prerequisite: EN 142. Corequisite: EN 120. This course provides the fundamentals of measurement and instrumentation for engineers. It presents the concepts and principles required to analyze and design instrumentation systems. Measurement systems for physical variables such as pressure, temperature, and flow are discussed, with an emphasis on experimental problem solving. Undergraduate students are introduced to measurement uncertainty and statistical analysis of measurements subjected to random errors. Data acquisition software and hardware are used to display and analyze experimental data from mechanical and electrical instruments.

EN / PHY 142 Circuits and Electronics (4) Prerequisites: PHY 023 and MA 010. Corequisite: EN 143. An introduction to circuits and electronics including electrical quantities, circuit principles, signal filtering circuits, semiconductor diodes, transistors and integrated circuits. Digital electronics including logic gates and flip-flops. Analog electronics including operational amplifiers and design of large and small signal amplifiers.

EN / PHY 143 Electronics Laboratory (1) Corequisite: EN 142. This weekly three-hour laboratory provides an introduction to practical electronic devices, experience in using some basic measurement techniques, and a feel for the capabilities and limitations of some common electronic instruments. The laboratory experiments are designed to supplement and complement the class (EN 142) discussions.

EN 150 Manufacturing Processes (3) Prerequisite: EN 050. This course provides a theoretical introduction to most modern manufacturing processes and a practical introduction to modern machining. Students should learn how to predict at least one set of processes to manufacture any given object for both small and large production runs, and should learn how to conduct themselves safely in a manufacturing environment. In greater detail, the theoretical course will cover components and tools of design, manufacturing techniques, and meta-manufacturing concerns. Specific topics will include mechanics of cutting, force and power, temperature, tool life, and surface finish. The practical course will include the drill press, band saw, mill, lathe, welding, rapid prototyping, and assembly.

EN 160 Machine Design (3) Prerequisite: EN 040. Mechanical design concepts including failure prevention under dead and live loads. Engineering methods and material analysis will be applied to design and manufacturing processes. Analysis will look at the individual machine elements as well as the structures as a whole. There will also be a design project.

EN 171 Computational Modeling in Engineering (3) Prerequisite: Junior standing. How to predict and understand the behavior of a system without an actual physical system to take measurements? How to translate physical and mathematical knowledge into algorithms? How to implement numerical models to solve problems with a determined accuracy? This course aims to give you a practical and strong basic understanding of numerical methods for solving engineering problems. In this course, you will be exposed to an introduction to numerical methods applied to engineering in the context of collaborative work and critical thinking. Topics include

physical and mathematical modeling, discretization methods for ordinary and partial differential equations, verification and validation procedures, and applications. The course aims to combine numerical modeling knowledge with creativity to solve engineering problems related to structural analysis, fluid flow, and heat transfer, using active learning strategies and engineering software.

EN 180, 181 Senior Design Capstone I, II (3, 3) Prerequisites: Senior standing and EN 180 for EN 181. Students apply the principles of engineering learned in previous courses by participating in an engineering project, in collaboration with partner companies or client organizations. Students learn and practice a user focused design process and methods intended to enhance innovation. Student teams will demonstrate effective project management, including the documentation of design activities and regular progress reports. Students will produce and test a functional prototype of their design. Deliverables include both written and verbal communication of design results.

EN 187 Engineering Biomechanics (3) Prerequisites: MA 009, PHY 021, PHY 022, and sophomore standing. This course provides an introduction to human anatomy and how mechanical principles apply to human movement and human musculoskeletal systems. The course will describe how physics engineering concepts such as kinematics, kinetics, impulse and momentum, and stress-strain help us understand the human body and ultimately improve human health. Emphasis will be placed on hands-on activities where students will collect and analyze human data to understand biophysical processes.

EN 190 Internship (2) Prerequisites: consent of instructor and Junior standing. Supervised internship under practicing engineers.

EN 196 Seminar I: Faith, Technology, and Christian Responsibility (1) Prerequisite: Senior standing. Examination of principles of leadership and service in the engineering profession. Discussion of responsible stewardship and Christian vocation. Capstone integrative paper required.

Engineering Physics

Professors A. Goodworth, R. Haring-Kaye (chair), D. Jensen
Assistant Professors B. Carlson, J. Gee
Instructor W. Allison

***D*escription of the Major**. The rapid growth of scientific knowledge and its applications has generated a large demand for men and women well-trained in physics and engineering. Physicists seek a fundamental understanding of the physical universe. Engineers apply scientific knowledge to design and develop structures, machines, and products.

Students may pursue the engineering physics major with core components in both physics and engineering. The physics courses emphasize the fundamental science and mathematics essential for graduate study or professional work in physics. The engineering courses, while not comprising a complete engineering program, provide a strong foundation for an engineering career.

State-of-the-art instrumentation, including a dedicated engineering facility, enrich students' experience in the laboratory. Opportunities exist for involvement in research with both physics and engineering faculty.

***D*istinctive Features**. In addition to pursuing the regular B.S. degree offered in the engineering physics major, students also have the option to pursue a B.A. degree in Applied Physics that combines the basic fundamentals of physics and engineering and allows for greater flexibility to add another major. This option might also be especially attractive to students who decide to major in the Physics and Engineering department after their first year due to a transfer or postponed decision.

***C*areer Choices**. Completion of the engineering physics degree enables students with good academic records to enter graduate study in physics or engineering.

The engineering physics major also prepares students for a variety of careers such as medicine, law, secondary or college-level teaching, and church ministry. It develops their ability to think logically and analytically regarding the objective behavior of physical systems.

Competencies developed in the engineering physics major also help students acquire specific technical skills needed in a variety of careers such as technical writing, patent work, geophysical or marine exploration, and medical technology.

Requirements for a B.A. in Applied Physics: 50 units

Required Lower-Division Courses: 41 units

CHM 005 General Chemistry I (4)
EN 005 Engineering and the Liberal Arts (3)
EN 050 Statics and Engineering Software (3)
MA 009, 010 Calculus I, II (4,4)

MA 019 Multivariable Calculus (4)
MA 040 Differential Equations with Linear Algebra (4)
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)
PHY 025 Modern Physics (4)
PHY 026 Modern Physics Laboratory (1)

Required Upper-Division Courses: 9 units

PHY 131 Classical Mechanics (4) or EN 055 Dynamics (4)
PHY 142 Circuits and Electronics (4)
PHY 143 Electronics Laboratory (1)

Recommended

CS 010 Introduction to Computational Problem Solving (4)
EN 080 Junior Design (3)
EN 150 Manufacturing Processes (3)
PHY 115 Mathematical Physics (4)
PHY 150 Electricity and Magnetism (4)

Requirements for a B.S. in Engineering Physics: 63 units

Required Lower-Division Courses: 43 units

EN 005 Engineering and the Liberal Arts (3)
EN 040 Mechanics of Materials (3)
EN 050 Statics and Engineering Software (3)
EN 080 Junior Design (3)
MA 009, 010 Calculus I, II (4,4)
MA 019 Multivariable Calculus (4)
MA 040 Differential Equations with Linear Algebra (4)
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)
PHY 025 Modern Physics (4)
PHY 026 Modern Physics Laboratory (1)

Strongly Recommended

CHM 005 General Chemistry I (4)
CS 010 Introduction to Computational Problem Solving (4)

Required Upper-Division Courses: 20 units

EN 120 Thermodynamics (4) or PHY 160 Thermodynamics (4)
PHY 131 Classical Mechanics (4)
PHY 142 Circuits and Electronics (4)

PHY 143 Electronics Laboratory (1)
PHY 170 Advanced Physics Laboratory (1)
PHY 195 Senior Seminar (1)

One of the following (4)
PHY 115 Mathematical Physics (4)
PHY 121 Quantum Mechanics I (4)
PHY 150 Electricity and Magnetism (4)
PHY 151 Electromagnetic Waves and Optics (4)

One of the following: (1)
EN 190 Internship (1)
PHY 190 Internship (1)
PHY 198 Physics Research (1)

Recommended

EN 110 Fluid Mechanics (3)

See Engineering and Physics for Course Descriptions

English

Associate Professors R. McNamara, S. Skripsky
Assistant Professors J. Diaz, A. Jordan

Description of the Major. Studies in English lead to mastery in the skills of reading literature with precision and care, researching thoroughly, and writing with sensitivity and imagination. Literature invites us to attend to places, times, and selves beyond our own. It allows us to journey with those whose experiences—resulting from their historical moment, race, class, or gender—differ from our own, giving us a wider view of the world and our particular place in it. Learning to engage with the voices of others in literature with intellectual rigor, curiosity, and compassion increases our capacities for enacting justice and mercy in our communities and our world. By reminding us continually that there is more to life than the physical or the quantifiable, literature can stimulate imagination in ways that enhance and challenge faith.

Through both reading and writing, the English major develops the capacity for critical thinking and the ability to communicate in rhetorically sensitive prose. Thus, the major helps to fulfill the English Department's Mission Statement:

> **The study of language and literature offers practice in the discipline of paying attention to the beauty and brokenness of the created order as students learn to read carefully, think critically, and write with rhetorical sensitivity.**

As students explore various genres across centuries, they will investigate the interplay of form and content as well as the interaction of text and historical context. As they wrestle with the ethical questions implicit in texts, they will examine their own assumptions, even as they witness an expansion of their sympathies. As they gain new knowledge of the understanding and use of the English language, students will view the expressive capacity of English, in all its complexity, as an invaluable gift of which they are to be faithful stewards.

Distinctive Features. The study tour in the British Isles, directed by regular department faculty in fall semesters, combines the study of literature with a program of travel to literary and cultural centers. During the period of residential study, students concentrate on well-known British and Irish writers as well as emerging and less-remembered voices. They also attend theatre productions in Edinburgh, London, and Stratford-upon-Avon, and learn about the historical contexts and local cultures in which British and Irish literature has been written. Additionally, students visit important historic and cultural sites. Past locations have included London, Oxford, Cambridge, Canterbury, York, Stratford-Upon-Avon, Dublin, Galway, Rostrevor, and the Lake District of the Romantic poets.

The major offers a strong program for students interested in the general study of English, with two possible areas of concentration, literature or writing. The writing concentration is for those who desire the benefits, in college and after, of significant exercise in various kinds of written expression including creative writing, film analysis,

and journalism. Students may also choose to pair the English major with an interdisciplinary Writing minor.

The student-led Writer's Guild and Poetry Club afford students a chance to socialize while exploring their passion for writing in the company of peers. The clubs' focus on sharing and critiquing the creative writing drafted by its members.

Career Choices. An English major prepares students to enter a wide variety of fields after the college years. English majors typically develop abilities—to read closely, to research and analyze astutely, to write cogently—that equip them particularly well to enter any area requiring professionals who are discerning and articulate. Both the required internship and the capstone seminar provide students with experience to demonstrate their practical skills and creative gifts while undertaking professional development and vocational discernment.

Students who love literature but also wish to pursue an interest in some other field may find it beneficial to double major in English and another discipline or to major in English and add a minor or two in other disciplines. Graduating majors have entered the fields of teaching, writing, editing, publishing, law, medicine, ministry and missions, non-profit work, drama, film production, information and library science, marriage and family therapy, public relations, real estate, finance, technology, and commercial and industrial management.

Requirements for an English Major: 40 units
(with a minimum of 24 upper-division units)

All English majors will complete **a minimum of** 40 units in the study of literature, writing and language. Of the 40 units for the major, at least 24 must be upper-division (100-level), and at least 24 must be in literature. While completing the eight requirements below, students may use any single course to count for no more than two requirements. AP English Literature and Composition scores of 4 and above may be applied toward English major or English minor requirements upon department chair approval.

One course as an introduction to the major: (4)

ENG 007H First-Year Honors Seminar in Literature (4)
ENG 060 Writers in Conversation (4)
ENG 090 Methods of Reading (4)

One historically organized course that spans more than a century of writing: (4)

ENG 044 Studies in World Literature (4)
ENG 045 Studies in Classic Literature: Arthurian Literature (4)
ENG 045 Studies in Classic Literature: Medieval Dream Visions (4)
ENG 046 Survey of British Literature to 1800 (4)
ENG 047 Survey of British Literature 1800-Present (4)
ENG 130 Early U.S. Literature: Memory, Narrative, and History (4)
ENG 158 Literature of the English Renaissance 1485-1600 (4)
ENG 166 Neoclassic Literature 1660-1798 (4)
ENG 170 British Novel 1700-Present (4)

One course in literature written in English prior to 1800: (4)

ENG 045 Studies in Classic Literature: Arthurian Literature (4)
ENG 045 Studies in Classic Literature: Medieval Dream Visions (4)

ENG 046 Survey of British Literature to 1800 (4)
ENG 117 Shakespeare (4)
ENG 151 Milton and the Early 17th Century (4)
ENG 152 Chaucer and Medieval Literature (4)
ENG 158 Literature of the English Renaissance 1485-1600 (4)
ENG 166 Neoclassic Literature 1660-1798 (4)

One course focusing on a single author or pair of authors and requiring a critical research paper: (4)
ENG 117 Shakespeare (4)
ENG 135 Faulkner (4)
ENG 151 Milton and the Early 17th Century (4)
ENG 152 Chaucer and Medieval Literature (4)
ENG 163 Authors in Context (4)
One upper-division course focusing on identity: (4)
ENG 119 Feminist and Gender Theory (4)
ENG 134 Ethnicity and Race in American Literature (4)
ENG 160 Women Writers (4)
ENG 165 Topics in World Literature (4)
ENG 185 Modern and Contemporary Irish Literature (4)
ENG 195 Seminar: Slavery and the Sea (4)
One course focusing on Literature of the Americas or Anglophone literature: (4)
ENG 044 Studies in World Literature (4)
ENG 130 Early American Literature: Memory, Narrative, and History (4)
ENG 131 American Writers 1865-1914 (4)
ENG 132 American Writers 1914-1945 (4)
ENG 133 American Writers: Special Topics (4)
ENG 134 Ethnicity and Race in American Literature (4)
ENG 135 Faulkner (4)
ENG 165 Topics in World Literature (4)
ENG 185 Modern and Contemporary Irish Literature (4)
ENG 195 Seminar: Slavery and the Sea (4)
Internship experiences earning at least 2 units of credit: (2)
ENG 167 Writers' Corner (2)
ENG 168 Student Publications: Horizon (1-4)
ENG 169 Student Publications: Phoenix (1-4)
ENG 190/190SS Internship (1-4)
*IS 190 Off-Campus Program Internship (1-4)**on Westmont Downtown or Westmont in San Francisco*
APP 168 Student Publications: Horizon (1-4)
APP 190 Internship (1-4)
One capstone experience completed in the ultimate or penultimate semester: (2-4)
ENG 192 Capstone (2)
ENG 199 Major Honors (2 or 4)

(Any of the above may be replaced by an approved England Semester course.)

Writing Concentration

For a writing concentration, English majors should complete a total of 16 writing units from among the following core and elective courses:

Required Core: 8 units

ENG 104 Modern Grammar and Advanced Composition (4)
ENG 192 Capstone (2)
Writing-intensive internship experience(s) earning at least 2 units of credit: (2)
ENG 167 Writers' Corner Internship (2)
*ENG 168 Student Publications: Horizon (1-4) **requires chair approval for writing-intensive units*
*ENG 169 Student Publications: Phoenix (1-4) **requires chair approval for writing-intensive units*
*ENG 190/190SS Internship or APP/IS 190/190SS Off-Campus Program Internship (1-8) **requires chair approval for writing-intensive units*

Electives: 8 units

ENG 014 Introduction to Creative Writing (4)
ENG 087 Introduction to Journalism (4)
ENG 105 History and Structure of English (4)
ENG 111 Screenwriting I (4)
ENG 112 Screenwriting II (4) **may be repeated with a different project*
ENG 113 Screenwriting III (4)
ENG 141 Creative Writing (4)
*ENG 142 Workshop in Creative Writing (4) **may be repeated as genres vary*
*ENG 143 Topics in Writing (2-4) **may be repeated as topics vary*
Additional writing-intensive internship units
ENG 167 Writers' Corner (2)
ENG 168 Student Publications: Horizon (1-4) **requires chair approval for writing-intensive units*
ENG 169 Student Publications: Phoenix (1-4) **requires chair approval for writing-intensive units*
ENG 190/190SS Internship or APP/IS 190/190SS Off-Campus Program Internship (1-4) **requires chair approval for writing-intensive units*

(Any of the above may be replaced by an approved England Semester course.)

Guidelines for Graduate Study Preparation in English Literature: 54-62 units

English majors who wish to pursue graduate study in literature must meet the general requirements for an English major but should complete a minimum of 54-62 units using the following general guidelines. Courses may be substituted for with an approved off-campus alternative.

A modern or ancient language at the intermediate level: 0-8 units
Lower-Division Courses: 8-12 units

ENG 090 Methods of Reading (4)
ENG 044 Studies in World Literature (4) or ENG 045 Studies in Classic Literature (4)
ENG 046 Survey of British Literature to 1800 (4)
ENG 047 Survey of British Literature 1800-Present (4)

Upper-Division Courses: 42-46 units

ENG 117 Shakespeare (4)
Three of the following: (12)
- ENG 121 Romantic Literature 1798-1832 (4)
- ENG 122 Victorian Literature 1832-1900 (4)
- ENG 151 Milton and the Early 17th Century (4)
- ENG 152 Chaucer and Medieval Literature (4)
- ENG 158 Literature of the English Renaissance 1485-1600 (4)
- ENG 166 Neoclassic Literature 1660-1798 (4)
- ENG 170 British Novel 1700-Present (4)

Two of the following: (8)
- ENG 130 Early American Literature: Memory, Narrative, and History (4)
- ENG 131 American Writers 1865-1914 (4)
- ENG 132 American Writers 1914-1945 (4)
- ENG 133 American Writers: Special Topics (4)
- ENG 135 Faulkner (4)

Two of the following: (8)
- ENG 134 Ethnicity and Race in American Literature (4)
- ENG 136 Jewish American Literature (4)
- ENG 160 Women Writers (4)
- ENG 164 Topics in Classic Literature (4)
- ENG 165 Topics in World Literature (4)
- ENG 195 Seminar (4)

Two of the following: (8)
- ENG 181 Modern and Contemporary Poetry (4)
- ENG 182 Modern and Contemporary Fiction (4)
- ENG 183 Modern and Contemporary Drama (4)
- ENG 185 Modern and Contemporary Irish Literature (4)
- ENG 186 British and Irish Theatre (4)

If eligible: (4-6)
- ENG 199 Major Honors (4-6)

Recommended:

Two of the following: (8)
- HIS 173 Civil War and Reconstruction America (4)
- HIS 174 God and Mammon in America (4)
- HIS 185 Imperialism and Independence (4)

One of the following: (4)
- ART 131 Theory and Criticism in the Arts (4)
- HIS 142 European Intellectual History, 1650-Present (4)
- PHI 135 Philosophy of Language (4)
- Any upper-division literature course in a language other than English (4)

Guidelines for Teacher Preparation for Secondary Teachers of English: 54-60 units

Students who hope to teach English at the secondary level in California need to complete the requirements for an English major, using the following recommended course of study, which prepares candidates to take the CSET English exam. The CSET (California Subject Examinations for Teachers) English exam requires knowledge in four domains:

literature and textual analysis
language, linguistics, and literacy
composition and rhetoric
communications - speech, media, and creative performance

If approved, England Semester or London Mayterm courses may be substituted.

Literature and Textual Analysis: 32 units

ENG 117 Shakespeare (4)
Two of the following: (8)
ENG 046 Survey of British Literature to 1800 (4)
ENG 047 Survey of British Literature 1800-Present (4)
ENG 121 Romantic Literature 1798-1832 (4)
ENG 122 Victorian Literature 1832-1900 (4)
ENG 151 Milton and the Early 17th Century (4)
ENG 152 Chaucer and Medieval Literature (4)
ENG 158 Literature of the English Renaissance 1485-1600 (4)
ENG 166 Neoclassic Literature 1660-1798 (4)
ENG 170 British Novel 1700-~~1900~~Present (4)
Two of the following: (8)
ENG 130 Early American Literature: Memory, Narrative, and History (4)
ENG 131 American Writers 1865-1914 (4)
ENG 132 American Writers 1914-1945 (4)
ENG 133 American Writers: Special Topics (4)
ENG 135 Faulkner (4)
Two of the following, including ENG 134 or 160: (8)
ENG 044 Studies in World Literature (4)
ENG 134 Ethnicity and Race in American Literature (4)
ENG 136 Jewish-American Literature (4)
ENG 160 Women Writers (4)
ENG 165 Topics in World Literature (4)
ENG 182 Modern and Contemporary Fiction (4)
One of the following: (4)
ENG 006 Studies in Literature (4)
ENG 044 Studies in World Literature (4)
ENG 045 Studies in Classic Literature (4)
ENG 181 Modern and Contemporary Poetry (4)
ENG 185 Modern and Contemporary Irish Literature (4)
ENG 195 Seminar (4)
An additional course from the options for British, American, or world literature (above)

Language, Linguistics, and Literacy: 8 units

ENG 106 Language Acquisition (4)
Modern/Foreign Languages (4) – a college-level course in any modern spoken language (e.g., Spanish, French, or German) or ancient language (e.g., Greek or Hebrew)

Composition and Rhetoric: 6-12 units

ENG 104 Modern Grammar and Advanced Composition (4)
One of the following: (2-4)
- ENG 002 Composition (4) (unless waived by department-approved alternative)
- ENG 090 Methods of Reading (4)
- ENG 167 Writers' Corner (2)
- COM 006 Messages, Meaning and Culture (4)

SP 100 Advanced Spanish (4)
Communications: Speech, Media and Creative Performance: 8 units
Two of the following: (8)
- ENG 087 Introduction to Journalism (4)
- ENG 101 Film Studies (4)
- ENG 141 Creative Writing (4) or ENG 142 Workshop in Creative Writing (4)
- ENG 183 Modern and Contemporary Drama (4)
- ENG 186 British and Irish Theatre [England Semester or London Theater Mayterm] (4)
- COM 015 Public Speaking (4)
- COM 125 Media and Mass Communication (4)
- COM 140 Studies in Communication Ethics (4)
- TA 010 Acting I: Foundations (4)

In order to complete a fifth-year Credential Program at Westmont, students should also complete eight or more units of the following prior to applying to the program:

KNS 156 Health Education for the Classroom Teacher (2)
ED 101 Explorations in Teaching: Secondary (4)
ED 105 Perspectives on Cultural Diversity and Education (4)
ED 130 Special Education for the Classroom Teacher (2)
ED 161 Technology for the Classroom Teacher: Secondary (2)

It may be possible to complete requirements for the major and the Westmont Credential Program in four years. Such a "fast-track" program requires early planning. Interested students should refer to more specific advising materials available on the Education Department webpage.

Students wishing to explore secondary teaching are encouraged to consult with faculty advisors in the Department of Education in addition to consulting with their major advisor.

Requirements for an English Minor: 20 units

To satisfy the requirements for an English minor, students must complete 20 units of English, which must include at least 12 units of literature and at least 12 units of upper-division coursework. ART/PHI-131 may be counted towards the writing units.

Requirements for a Writing Minor: 20 units

To satisfy the requirements for a Writing minor, students must complete 20 units. See specific requirements for the interdisciplinary minor under "Writing Minor" listed later in this catalog.

Lower-Division Course Descriptions

ENG 002 Composition (4) Provides practice and critique in a variety of forms and modes of exposition including personal reflection, analysis, synthesis, and evaluation. Requires six to eight formal papers, including a documented research paper. Does not apply to the English major or minor. Serves as an elective for the Writing Minor.

ENG 002ENV Composition: Environment (4) Writing assignments cultivate the stewardship of language through personal reflection on writing processes and local places as well as through analysis and evaluation of environmental rhetoric in a variety of contexts. Each student chooses an environmental problem for scholarly inquiry (writing a book review, annotated bibliography, and documented research paper). Does not apply to the English major or minor. Serves as an elective for the Writing Minor.

ENG 006 Studies in Literature (4) An exploration of the ways of knowing provided by narrative, poetry, and drama. The course invites us to see how literature reveals things we cannot know except by inference or by metaphor. Further, by encouraging us to practice compassion by imagining the other, the course involves us in ways of knowing that are inherently ethical. Content varies; faculty usually include selections from historically underrepresented writers. Requires at least four formal papers or the equivalent, involving a minimum of sixteen pages of analytic writing. Serves as an elective for the Writing Minor.

ENG 006ENV Studies in Literature: Environment (4) An exploration of how essay, narrative, poetry, and drama help us understand the natural world. The course invites us to see how literature gives us imaginative access to life forms and processes we cannot know except by inference or by metaphor. Further, by encouraging compassion toward all creatures, the course involves us in ethical reflection on our role as fellow creatures and stewards. Content varies; faculty usually include selections from historically underrepresented writers. Requires at least four formal papers or the equivalent, involving a minimum of sixteen pages of analytic writing. Serves as an elective for the Writing Minor.

ENG 006WA Studies in Literature: Performance (4) An exploration of the ways of knowing provided by narrative, poetry, and drama, with an emphasis on the creation and analysis of live theatrical performance. Students will attend live theatre in Santa Barbara and southern California, write play reviews of those performances (and, at times, of video of live performance), and rehearse and perform a Shakespeare scene.

Content varies; faculty include selections from historically underrepresented writers. Serves as an elective for the Writing Minor.

ENG 007H First-Year Honors Seminar in Literature (4) Prerequisite: by invitation only. A small group of honors students form a learning community around the pleasures of attentive reading and rigorous discussion of literature from a variety of cultural and historical contexts. Serves as an elective for the Writing Minor.

ENG 014 Introduction to Creative Writing (4) Prerequisite: completion of the Writing for the Liberal Arts GE requirement. A guided workshop approach to writing in at least two different literary genres (poetry, fiction, drama, or creative non-fiction). Serves as an elective for the Writing Minor.

ENG 044 Studies in World Literature (4) Topics in modern and contemporary literature from around the world. Readings may include works by African, Asian, Middle Eastern, Latin American, or Native American writers and range from indigenous work to writing in colonial and post-colonial contexts, including both literature in translation and Anglophone writers. May be repeated for credit as topics vary.

ENG 044 Studies in World Literature: Environment (4) Topics in modern and contemporary literature from around the world focusing on the natural world. Readings may include works by African, Asian, Middle Eastern, Latin American, or Native American writers and range from indigenous work to writing in colonial and post-colonial contexts, including both literature in translation and Anglophone writers. May be repeated for credit as topics vary.

ENG 045 Studies in Classic Literature (4) Topics in classic literature of the Western World. Topics may range from genre studies to courses on individual writers and may range in time from the writers of classical antiquity to modern European authors. Recent topics include Arthurian Literature and Medieval Dream Visions. May be repeated for credit as topics vary. Serves as an elective for the Writing Minor.

ENG 046 Survey of British Literature to 1800 (4) Historical overview of authors, genres, and literary developments, as well as relevant cultural context, from the medieval through the early modern, seventeenth-century, and eighteenth-century eras.

ENG 047 Survey of British Literature 1800-Present (4) Historical overview of authors, genres, and literary developments, as well as relevant cultural context, in the Romantic, Victorian, Modern, and Contemporary periods.

ENG 060 Writers in Conversation (4) Prerequisite: completion of the Writing for the Liberal Arts GE requirement. This course emphasizes the dialogic nature of literature, involving an intellectual and imaginative conversation between authors across cultures or across times. Readings include works of two or more writers who respond to each other, including at least one author from an underrepresented tradition. Topics foreground an understanding of literary studies as rigorous, inclusive, faithful, ethically minded and may include multicultural literature, global literature, gender and literature, and film and literature, among others. Because this course will introduce students to the skill set necessary for the study of English, it is intended to be taken during the first year of the English major or minor. Serves as an elective for the Writing Minor.

ENG 087 Introduction to Journalism (4) Prerequisite: completion of the Writing for the Liberal Arts GE requirement. Extensive experience in news reporting and feature writing. Consideration given to current professional and ethical issues facing the press. Serves as writing elective. Serves as an elective for the Writing Minor.

ENG 090 Methods of Reading (4) Prerequisite: completion of the Writing for the Liberal Arts GE requirement. Intensive written practice in methods of analyzing and interpreting works of drama, fiction, or poetry in genre-specific ways, as preparation for upper-division literature courses. Serves as writing elective. Serves as an elective for the Writing Minor.

Upper-Division Course Descriptions

ENG 101 Film Studies (4) Prerequisites: one literature course and completion of the Writing for the Liberal Arts GE requirement. Consideration of film as a narrative and visual medium. Includes practice in analysis of plot structure, theme, symbolism, and literary sources. Serves as writing elective.

ENG 104 Modern Grammar and Advanced Composition (4) Prerequisite: completion of the Writing for the Liberal Arts GE requirement. Strategies and practice in writing non-fiction, expository prose. Special emphasis on revision and style. Includes mini-lessons, peer editing, in-class writing, workshops, and oral presentations. Serves as a core course for the English Major's Writing Concentration as well as a core course for the Writing Minor.

ENG 105 History and Structure of English (4) Prerequisite: ENG 046. History of the language including modern developments in grammar and Anglophone dialects.

ENG 106 Language Acquisition (4) An examination of the basic structures of English usage and the process of acquiring and developing a first and second language. Course includes historical and current theories of language acquisition as well as teaching methodologies. Serves as an upper-division elective.

ENG 111 Screenwriting I (4) Prerequisites: Consent of instructor, or declaration of Film Studies minor, English major, English minor, or Writing minor.. Introduction to theory and technique of dramatic writing for film and TV. Offered in fall semesters. Serves as an elective for the Film Studies Minor and the Writing Minor.

ENG 112 Screenwriting II (4) Prerequisite: ENG 111. Fundamentals of screenwriting focusing on conflict and character, structure, scenes, dialogue, and dramatic action. Alternates with ENG 113 in spring semesters. Serves as an elective for the Film Studies Minor and the Writing Minor. Can be repeated with a different project.

ENG 113 Screenwriting III (4) Prerequisite: ENG 111. Examination of methods of adapting fiction and non-fiction material to film and TV. Serves as an elective for the Film Studies Minor and the Writing Minor.

ENG 117 Shakespeare (4) Prerequisite: one literature course or consent of instructor. Representative comedies, histories, and tragedies.

ENG 117WA Shakespeare in Performance (4) Prerequisite: one literature course or consent of instructor. Representative comedies, histories, and tragedies. Students will attend live Shakespeare performances in Santa Barbara and southern California, write

play reviews of those performances (and, at times, of video of live performance), and rehearse and perform a Shakespeare scene.

ENG 119 / GS 119 Feminist and Gender Theory (4) Prerequisite: One literature course or one gender studies course. This course will acquaint students with several influential feminist and gender theorists to build a foundation for further study of both feminism and literary theory. From that foundation, discussions will explore narrative's place in theory and engage connections and tensions between Christian teachings and feminist thinking and action.

ENG 121 Romantic Literature 1798-1832 (4) Prerequisite: one literature course or consent of instructor. Poetry, prose, and drama by major and other authors of the Romantic period from Blake to Keats.

ENG 122 Victorian Literature 1832-1900 (4) Prerequisite: one literature course or consent of instructor. Readings from novelists including the Brontës, Dickens, Eliot, and Hardy; and poets such as Arnold, the Brownings, and Tennyson, along with less-remembered literary figures. Course includes cultural context from nineteenth-century conversations of faith and secularism, gender ideology, industrialization, political reform, and Empire.

ENG 130 Early American Literature: Memory, Narrative, and History (4) Early U.S. literature through the end of the Civil War. While responding to oral and written narratives circulating before and after European contact, this course considers how conceptions of race, ethnicity, gender, and class impacted the U.S. literary tradition. Assigned writers may include Phillis Wheatley, Jonathan Edwards, Thomas Jefferson, Frederick Douglass, James Fenimore Cooper, Narcissa Owen, Herman Melville, Elias Boudinot, William Apess, Lydia Maria Child, José María Heredia y Heredia, Harriet Jacobs, Walt Whitman, Nathaniel Hawthorne, and Harriet Beecher Stowe.

ENG 131 American Writers 1865-1914 (4) Literature from the end of the U.S. Civil War to the beginnings of World War I. In addition to thinking about how race, ethnicity, gender, and class shaped and were shaped by U.S. writers, this course considers how memories of war impacted what writers wrote and how readers read. Assigned writers may include Frederick Douglass, Mark Twain, Zitkála-Šá, Susie King Taylor, Anna Julia Cooper, Sui Sin Far, Paul Laurence Dunbar, Pauline Hopkins, Emily Dickinson, Henry James, W.E.B. DuBois, Thomas Nelson Page, Charles W. Chesnutt, William Dean Howells, Kate Chopin, Charles Eastman, and José Martí.

ENG 132 American Writers 1914-1945 (4) Works of such 20th century novelists as William Faulkner, Ernest Hemingway, F. Scott Fitzgerald, Nella Larsen, and Zora Neale Hurston; poetry of Robert Frost and T. S. Eliot; plays of Eugene O'Neill, Tennessee Williams, and Arthur Miller.

ENG 133 American Writers: Special Topics (4) Prerequisites: two literature courses or consent of instructor. Intensive study of one topic in American letters such as Southern writers, the expatriate writers, Jewish-American writers, contemporary novelists, or a single author.

ENG 134 Ethnicity and Race in American Literature (4) Prerequisite: one literature course or consent of instructor. Explorations of traditions in America's diverse cultural literatures, and literary representations of relations between and within different ethnic and racial groups. Texts and emphases vary.

ENG 135 Faulkner (4) Prerequisite: two literature courses or consent of instructor. A study of the writer who attracts more critical attention than any writer in English except Shakespeare and Chaucer. The seminar explores the way Faulkner creates a literary world on his postage-stamp of Yoknapatawpha soil in such works as *Absalom, Absalom! As I Lay Dying, The Sound and the Fury,* and *Go Down, Moses.*

ENG 136 Jewish-American Literature (4) An exploration of selected literature related to the history, traditions, and life of Jewish people in the United States.

ENG 141 Creative Writing (4) Prerequisites: Declared Writing minor, English minor, or English major, or consent of the instructor. Theory and practice of writing poetry, fiction, and creative non-fiction. Serves as an elective for the Writing Minor.

ENG 142 Workshop in Creative Writing (4) Prerequisites: Declared Writing minor, English minor, or English major, or consent of the instructor. Workshop in creative writing in a single genre, such as poetry, prose fiction, drama, or creative nonfiction. May be repeated for credit as genres vary. Serves as an elective for the Writing Minor.

ENG 143 Topics in Writing (2-4) Prerequisite**:** Declared Writing minor, English minor, or English major, or consent of the instructor. Advanced, writing-intensive English and Writing elective. Includes readings and assignments in a wide range of topics related to writing. May focus on a specific genre, theory, method, or practice of writing. Recent topics include Intersectional Autobiographies and Writing for Contemporary Magazines. Serves as an elective for the Writing Minor. May be repeated for credit as genres vary.

ENG 151 Milton and the Early 17th Century (4) Prerequisite: one literature course. Poetry, prose, and drama from Jonson to Milton.

ENG 152 Chaucer and Medieval Literature (4) Prerequisite: one literature course. In addition to its focus on Chaucer's literature in the original Middle English, this course will consider late medieval religious and political contexts, source and analogue texts, manuscript culture, and issues of gender, race, and class in medieval English literature.

ENG 158 Literature of the English Renaissance 1485-1600 (4) Prerequisite: one literature course. Poetry, prose, and drama from Malory to Spenser, excluding Shakespeare.

ENG 160 Women Writers (4) Writing by women in a variety of genres, arranged chronologically, geographically, or thematically to focus on questions related to gender, class, race, and spirituality. Past topics include British Women Writers, Postcolonial Women Writers, and Speculative Fiction. With instructor's permission, may be repeated for credit as topics vary.

ENG 163 Authors in Context (4) Prerequisite: one literature course. Authors in this course will vary across literary period and genre, as well as across national traditions. As topics vary, the course will bring two authors (e. g. Toni Morrison and Virginia Woolf; William Wordsworth and Jane Austen, Chinua Achebe and Ngozi Adichie) into conversation. Discussion and written assignments will tend to details of each writer's cultural contexts, as well as to persistent stylistic, formal, and thematic choices, while also exploring the tensions and commonalities between two writers in search of a richer experience of both. This course requires a research paper. This course may be repeated for credit when topics vary.

ENG 164 Topics in Classic Literature (4) Advanced study of topics ranging from the writers of classical antiquity to modern European authors. May be repeated for credit as topics vary.

ENG 165 Topics in World Literature (4) May focus on key figures or on a special topic in world literature in translation (such as visionary literature), or on an emerging field such as Anglophone poetry or postcolonial fiction. May be repeated for credit as topics vary.

ENG 166 Neoclassic Literature 1660-1798 (4) Prerequisite: one literature course or consent of instructor. English literature from the Augustan Age and the 18th century, including Restoration drama, satire, heroic verse, periodical essays, and the rise of the novel, by writers such as Bunyan, Dryden, Behn, Pope, Swift, Johnson, Burney, and Fielding.

ENG 167 Writers' Corner (2) Prerequisite: by invitation or consent of instructor. A course in composition theory and pedagogy that establishes a community of scholar-practitioners among students who work at Writers' Corner and equips them with the training needed to serve as effective writing tutors. Serves as an elective for the Writing Minor.

ENG 168 Student Publications: Horizon (1-4) Prerequisite: ENG 087. Semester-long course of experiential learning in news writing, and perhaps in editing, page layout or photography, and production of a student newspaper. The editor-in-chief may receive 4 units per semester, section editors may receive 2 units per semester, and other staff may receive one unit per semester. (A maximum of 4 units of publication credit may apply toward the English major.) P/NC grading only, unless letter grading is approved by instructor. Serves as an elective for the Writing Minor.

ENG 169 Student Publications: Phoenix (1-2) Supervised experience in editing the student literary magazine, the *Phoenix*, published in April of each year. The editor or co-editors may receive 2 units per semester and assistant editors may receive 1 unit per semester. (A maximum of 4 units of publication credit may apply toward the English major.) Serves as an elective for the Writing Minor.

ENG 170 British Novel 1700-Present (4) Prerequisite: two literature courses or consent of instructor. A study of the British novel from its origins to the present. We will read from novelists such as Behn, Defoe, Burney, Austen, Scott, Brontë, Eliot, Dickens, Hardy, Joyce, Woolf, and both Zadie and Ali Smith. Through those readings we will consider questions about the novel as a genre, about the novel's place in British culture, and about shifting understandings of "British" identity across history and region.

ENG 181 Modern and Contemporary Poetry (4) Prerequisite: two literature courses or consent of instructor. British and American poetry by poets such as Hopkins, Hardy, Yeats, Eliot, Frost, Bishop, and Williams with some works from more recent poets.

ENG 182 Modern and Contemporary Fiction (4) Prerequisite: two literature courses or consent of instructor. American, British, and Anglophone novelists and short story writers of the 20th and 21st centuries, as well as fiction in translation.

ENG 183 Modern and Contemporary Drama (4) Prerequisite: one literature course or consent of instructor. British, American and European works by playwrights such

as Henrik Ibsen, Anton Chekhov, Eugene O'Neill, Samuel Beckett, Arthur Miller, Tom Stoppard, Lorraine Hansberry, August Wilson, Brian Friel, and Caryl Churchill. Field trips to performances of both new and established plays.

ENG 185 Modern and Contemporary Irish Literature (4) Prerequisite: two literature courses or consent of instructor. An examination of modern and contemporary Irish literature of the 20th century. The post-colonial crafting of a national identity by writers from W. B. Yeats, James Joyce, and J. M. Synge to Seamus Heaney and Brian Friel—and the reexamination of that identity by more recent women writers from Eavan Boland to Nuala Ní Dhomhnaill, Eiléan Ní Chuilleanáin, Christina Reid, and Marina Carr.

ENG 186 British and Irish Theatre I (4) Study of plays available in live production in London, Stratford-upon-Avon, and Dublin ranging from Shakespeare to modern classics to world premieres. Offered on London Theatre Mayterm in odd-numbered years, and may be offered on England Semester in even-numbered years.

ENG 187 British and Irish Theatre II (4) Study of plays available in live production in London, Stratford-upon-Avon, and Dublin ranging from Shakespeare to modern classics to world premieres. Offered on London Theatre Mayterm in odd-numbered years.

ENG 190/190SS Internship (1-4) Internships related to English at a variety of employers, typically in Santa Barbara or San Francisco. Such experiential learning is set in context through reflection, both in writing and in discussion, on the significance of the experience. Westmont Downtown and Westmont in San Francisco offer internship opportunities in journalism, writing, editorial work, teaching English as a second language, and more. Students may enroll in ENG 190SS if their internship is approved by the instructor as appropriate for fulfilling the Serving Society option of the Compassionate Action graduation requirement.

ENG 191SS Reading in the Community (0) Prerequisite or co-requisite: enrollment in an upper-division literature course or consent of instructor. Typically, students receive training in the art of oral interpretation and read selections of literature to a volunteer audience (i.e., an elderly or otherwise underserved person) for an hour a week. (P/NC grading only)

ENG 192 Capstone Seminar (2) Requirement for completion of the English major, to be taken in the final spring semester of the student's major course of study on campus. Involves a substantial original project under faculty supervision, professional development, peer collaboration, oral presentation of projects, and reflection on the intersection of Christian faith and vocation. Serves as an elective for the Writing Minor.

ENG 195 Seminar (4) Prerequisite: two literature courses or consent of instructor. Advanced study on a single author or topic such as literary theory, satire, or literature of place. May be repeated for credit as topics vary.

ENG 199 Major Honors (4-6) In consultation with their faculty mentor, the Major Honors candidate will develop and execute an advanced-level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

English - Modern Language

Professor M. Docter (chair)
Associate Professor L. Elías
Assistant Professor C. Molina

***D*escription of the Major**. Westmont offers regular modern language courses in French, German Studies, and Spanish. These courses emphasize communication skills at the elementary and intermediate levels. Beyond the classroom, regular use of language materials and internet resources encourage the development of skills. Students learn about the culture and civilization through reading literature as well as through a variety of media. The College offers upper-division courses and majors in French and Spanish, in which students delve more deeply into the language, literature, and cultures of the regions studied.

***D*istinctive Features**. Personally acquainted with the culture of the languages they teach, the professors incorporate personal experiences and insights in lectures and discussions. Small class sizes, close student-faculty relationships, and a flexible curriculum all contribute to fulfilling students' needs and demands in studying modern languages and their literature.

***C*areer Choices**. Becoming proficient in a second language and understanding people of another culture are competencies valuable in any profession or career. They can help us live and move in the global community as attractive and articulate witnesses for Christ. In every field, including foreign missions, domestic human services agencies, business, education, government, law, medicine, and the arts, there is a need for people capable of communicating meaningfully with others.

Requirements for a Major: 36 units

ENG 117 Shakespeare (4)
Literature Survey: Two courses selected from one of the following categories (8)
A. British Literature
ENG 046 Survey of British Literature to 1800 (4)
ENG 047 Survey of British Literature 1800-Present (4)
OR
B. American Literature
ENG 130 Early American Literature: Memory, Narrative, and History (4)
ENG 131 Major American Writers 1865-1914 (4)
ENG 132 Major American Writers 1914-1945 (4)
ENG 133 Major American Writers: Special Topics (4)
Two upper-division electives in English Literature (8)
Four upper-division literature courses in a Single Foreign Language (16)

Course Descriptions

French (see French major)

German Studies

GER 001 Elementary German (4) Introduction to various aspects of the German-speaking world to begin building communicative abilities in German in reading, listening, writing, and speaking. This course establishes a basic knowledge of simple sentence patterns and grammatical features of German forms and explores the rich cultural tradition of German-speaking countries of Central Europe. German 1 is for students who have not studied German or whose placement-test score indicates German 1.

GER 002 Elementary German (4) Review of the basic grammar from German Studies 1 and further develops communicative abilities in reading, listening, writing, and speaking German. This course builds on a basic knowledge of simple sentence patterns to introduce more grammatical features of German forms and explores the rich cultural tradition of German-speaking countries of Central Europe. Prerequisite: Placement test, German 1 at the college level, or instructor's consent.

GER 003 Intermediate German (4) The further examination of various aspects of the German-speaking world as a way to develop communicative abilities in German in reading, listening, writing, and speaking. In addition to expanding major sentence patterns and grammatical features of German forms, the course explores the rich cultural tradition and political histories of German-speaking countries of Central Europe, integrating current technology and film. Prerequisite: Placement test, German 2 at the college level, or instructor's consent.

GER 004 Intermediate German (4) The continuation of examining various aspects of the German-speaking world as a way to develop speaking. In addition to expanding major sentence patterns and grammatical features of German forms, the course explores the rich cultural tradition and political histories of German-speaking countries of Central Europe, integrating current technology and film. Prerequisite: Placement test, German 3 at the college level, or instructor's consent.

Spanish (see Spanish major)

Environmental Studies

Professors L. DeBoer, M. Robins, A. Sparkman
Associate Professor B. Kent
Assistant Professor S. Cowell, K. Bryant, L. Schultheis

Description of the Major. Widespread environmental problems such as biodiversity loss, resource depletion, and environmental change and degradation are among the most pressing global issues of our day. They have tremendous scientific, social, and moral dimensions that require a sophisticated, informed, and compassionate response from a range of disciplinary perspectives. The field of environmental studies provides this range, as it encompasses environmental science as well as the environmental humanities and environmental social sciences. Students in this major will develop an interdisciplinary knowledge base and set of skills to engage contemporary environmental issues.

Distinctive Features. Westmont's Environmental Studies situates stewardship of the earth in the context of Christian theology and environmental ethics. Westmont is ideally posed to attract students interested in studying environmental fields, given its natural beauty from mountain to coast, and close proximity to the Channel Islands National Park and Los Padres National Forest.

Career Choices. Santa Barbara is well known for its many vibrant and well-respected organizations, such as the Environmental Defense Center, Community Environmental Council, Santa Barbara Land Trust, Channel Islands Restoration, Santa Barbara Botanic Gardens, Santa Barbara Wildlife Care Network, Santa Barbara Museum of Natural History, Wilderness Youth Program and many more, all of which have a strong positive relationship with Westmont, and have already hosted Westmont students as interns and/or visited our campus as guest speakers.

Requirements for a Major: 45 units

Required Core: 17 units

ENV 001 Introduction to Environmental Studies (4)
ENV XXX Environmental and Earth Science (4)
ENV XXX Introduction to GIS (4)
ENV 195 Environmental Studies Capstone (1)
PHI XXX Environmental Ethics (4)

Natural Sciences: 4 units

One of the following:

BIO 104 Marine Biology (4)
BIO 108 Animal Diversity (4)
BIO 125 General Ecology (4)

BIO 141 Ornithology/Herpetology (4)
BIO 151 Plant Classification and Biodiversity (4)
BIO 1XX Restoration Ecology (4)
CHM 004 Chemistry, Culture, and Society (4)
CHM 1XX Environmental Chemistry (4)
CS 1XX Computing for Community Action (4)
PHS 030 Physics for Future Presidents (4)
Other natural science courses with a substantive environmental component, special topics courses, or senior seminars, as approved by the chair of the major.
Other natural science environmental courses offered at Au Sable institute for Environmental Studies or other Westmont-approved off-campus programs (e.g. Biological Agriculture, Conservation Biology, Land Resources, Restoration Ecology, Environmental Chemistry).

Social Sciences: 8 units
Two of the following:
AN/KNS 140 Food Systems (4)
EB 106 Environmental and Natural Resource Economics (4)
HIS 010ENV Perspectives on World History: Environment (4)
HIS 045 Environmental History of the Holocaust (4)
HIS 178 California History (4)
POL 124 International Development (4)
POL 127 Environmental Politics (4)
SOC 161 Environmental Sociology
Other social science courses with a substantive environmental component, special topics courses, or senior seminars, as approved by the chair of the major.
Other social science environmental courses offered at Au Sable institute for Environmental Studies or other Westmont-approved off-campus programs (e.g. Environmental Law and Politics, International Development and Environmental Sustainability, Sustainable Community Development).

Humanities: 4 units
One of the following:
ART 134 Land into Landscape: The Anthroposcenic Imagination (4)
ART 161 Intaglio/Relief Printmaking II (4)
ART 162 Screen Printing (4)
ENG 002ENV Composition: Environment (4)
ENG 006ENV Studies in Literature: Environment (4)
ENG 143 Topics in Writing: Nature Writing (4)
COM Persuasion and Propaganda (4)
COM 130 Argumentation and Advocacy (4)
RS 101 Pentateuch: The Book of Deuteronomy (4)
RS 108 Prophetic Literature of the Old Testament: Isaiah (4)
RS 116 The Apocalypse (4)

RS 134 Gender in Theological Perspective (4)

Other humanities courses with a substantive environmental component, special topics courses, or senior seminars, as approved by the chair of the major.

Other social science environmental courses offered at Au Sable institute for Environmental Studies or other Westmont-approved off-campus programs.

Electives: 8-9 units

Any of the options listed above in the natural science, social science, or humanities categories

PEA 067A Trail Hiking and Running (1)

Internship or Research: 3-4 units

ENV 190 Environmental Internship

Or environment-related research courses in any discipline, including major honors

Requirements for a Minor: 20 units

Required Courses:

ENV 001 Introduction to Environmental Studies (4)

Electives: 16 units

At least one course must be taken from each of the three following areas.

Natural Sciences

BIO 104 Marine Biology (4)
BIO 108 Animal Diversity (4)
BIO 125 General Ecology (4)
BIO 129 Tropical Ecology (4)
BIO 141 Ornithology/Herpetology (4)
BIO 151 Plant Classification (4)
BIO 197 Biology and Faith (4)
CHM 004 Chemistry, Culture, and the Environment (4)
PHS 030 Physics for Future Presidents (4)

Other natural science special topics courses with a substantive environmental emphasis (e.g. BIO 1XX Restoration Ecology, CS 1XX Computing for Community Action

Other natural science environmental courses offered at Au Sable Institute for Environmental Studies or other Westmont-approved off-campus programs (e.g., Environmental Applications in GIS, Biological Agriculture, Conservation Biology, Land Resources, Restoration Ecology, Environmental Chemistry)

Social Sciences

AN/KNS 140 Food Systems (4)
HIS 010ENV Perspectives on World History: Environment (4)
HIS 045 Environmental History of the Holocaust (4)
HIS 178 California History (4)
POL 124 International Development (4)
POL 127 Environmental Politics (4)
SOC 161 Environmental Sociology (4)
Other social science environment courses offered at Au Sable Institute for Environmental Studies or other Westmont-approved off-campus programs (e.g., Environmental Law and Politics, International Development and Environmental Sustainability, Sustainable Community Development)

Humanities

ART 134 Land into Landscape: The Anthroposcenic Imagination (4)
COM 129 Persuasion and Propaganda (4)
COM 130 Argumentation and Advocacy (4)
ENG 002ENV Composition: Environment (4)
ENG 006ENV Studies in Literature: Environment (4)
ENG 044ENV Studies in World Literature: Environment (4)
Other humanities courses with a substantive environmental emphasis (e.g. RS 108 Prophetic Literature, RS 116 The Apocalypse, RS 134 Gender in Theological Perspective, RS 101 The Pentateuch:, PHI 1XX Environmental Ethics)

Other Elective

ENV 190 Environmental Studies Internship (1-4) (may be distributed into three areas above, as appropriate)
PEA 067A Trail Hiking and Running (1)

Other natural science, social science, or humanities courses with a substantive environmental emphasis, special topics courses, or senior seminars may be approved by the minor advisor.

At least two courses must be upper-division. Courses may have prerequisites. For courses where environmental issues are not the sole focus, students should choose an environment-related issue for any independent project assigned, as approved by the minor advisor.

Course Descriptions

ENV 001 Introduction to Environmental Studies (4) This course is an introduction to the main features of the environment and global environmental issues. It uses an interdisciplinary approach that includes environmental science, ethics, literature, history, politics, sociology, and economics. It cultivates a deep understanding of individual and corporate connections to the natural world in all its diversity, and helps students develop an interdisciplinary knowledge base and set of skills to engage contemporary environmental issues from local to global scales. It also situates stewardship of the earth in the context of Christian theology and social environmental ethics, fosters an ability to analyze and debate complex environmental problems, and devise constructive, imaginative strategies to address them.

ENV 150 Topics (1-4) Special courses offered on selected topics in Environmental Studies. Content as announced.

ENV 190 Environmental Studies Internship (1-4) Prerequisite: ENV 001. Internship experience in environment-related fields such as environmental advocacy, communication, art, or writing; resource management, wildlife management, habitat restoration, sustainable agriculture, green business, wildness therapy, or nature literacy. Internships will preferably be performed in Santa Barbara or in conjunction with the Westmont in San Francisco program.

Ethnic Studies Minor

Professors C. Farhadian, T. Knecht, A. Mullen
Associate Professors R. McNamara, C. Mitten
Assistant Professors E. Gardner, A. Su

Description of the Minor. The ethnic studies minor provides students with the opportunity to study the cultural, historical, political, and social dimensions of a variety of racial and ethnic groups. The minor is interdisciplinary in nature and draws upon various departments for its course offerings. A minor in ethnic studies will equip students to engage and lead faithfully in the pluralistic environment that is our contemporary world. The minor also situates issues of racial and ethnic identity and equity within the context of Christian understandings of human flourishing. Thus, the minor will equip students with an interdisciplinary knowledge base and set of skills about race and ethnicity in local, national, and global contexts. Students who complete the minor will be able both to analyze racial and ethnic issues and develop concrete and creative responses to them.

Requirements for a Minor: 24 units

Required Courses: 8 units

ETN 010 Introduction to Ethnic Studies (4)
SOC 189 Sociology of Race and Ethnicity (4)

Electives: 16 units

AN 115 Peoples and Cultures (4)
COM 138 International Rhetoric (4)
ED 105 Perspectives on Cultural Diversity and Education (4)
ENG 130 Early American Literature: Memory, Narrative, and History (4)
ENG 134 Ethnicity and Race in American Literature (4)
HIS 178 California History (4)
POL 113 Race and Politics (4)
PSY 132 Cultural Psychology (4)
RS 159 Christian Mission (4)
SOC/AN 135 Gender in Cross-Cultural Perspective (4)
TA 140 Race and Gender on the American Stage (4)

May also include ED 100/101 Explorations in Teaching, ENG 060 Writers in Conversation, ENG 143 Topics in Writing, ENG 160 Women Writers, and ENG 165 Topics in World Literature when focusing on race and ethnicity.

No more than 8 units of elective credit may be taken within the same department.

Course Descriptions

ETN 010 Introduction to Ethnic Studies (4) This course is designed to frame the course work of the minor within an interdisciplinary rubric, one rooted in the literature, theories, and methodologies of Ethnic Studies. The main objectives include learning interdisciplinary theoretical perspectives and research methods, so as to understand the ways in which U.S. and global systems of power are rooted in racial, ethnic, and gender constructs, constructs which intersect with other variables, such as class, disability, and religion. The course will also foreground the historical and present relationship of Christianity and the Christian church to both national and global systems. Students will learn about the value and practical application of this kind of research within academia and for society.

Film Studies Minor

Professors S. Anderson, L. DeBoer, D. Dunn,
C. Farhadian, H. Keaney, T. Knecht, M. Thomas, T. Work
Associate Professors J. Hicks (minor advisor)
Assistant Professors S. Pratt

Description of the Minor. Film is one of the most influential and globally recognized languages today, instrumental in shaping culture and in transforming viewers' opinions, desires, and worldviews. Film communicates new stories, insights, and perspectives, provoking significant debates around ideas that matter. Film also provides a common experience that can shape how we see God, self, and others.

The Film Studies Minor provides an integrated liberal arts foundation that emphasizes the intersections of culture, film, and Christian faith. The minor examines film as an art form that persuades and inspires, evoking religious, aesthetic, ethical, and epistemological questions that are foundational to humane learning. Combining coursework from the departments of Art, Communication Studies, English, Modern Languages, Political Science, Theater Arts, and Religious Studies, Film Studies minors explore film as a powerful national and transnational force.

The Film Studies Minor is grounded in Christian thinking. Students consider faith-driven choices as they apply theory and criticism to film with practices and production.

Requirements for a Minor: 22 units

Film Theory and Criticism: 4 units

ENG 101 Film Studies (4)
COM 107 Focus on Film (1 unit each, 4 total units required)

Film in Context: 4 units

One of the following:

COM 148 Postmodern Narratives (4)
ENG 134 Ethnicity and Race in American Literature (4)
HIS 082 History of the Israeli-Palestinian Conflict through Film (4)
POL 142 The Politics of Film (4)
RS 132 Theology in Film (4)
SP 130 Hispanic Film and Literature (4)

Film Practice: 4 units

One of the following:

APP 190 Internship (1-4) as approved by the minor advisor
ENG 111 Screenwriting I (4)
FLM 030 Introduction to Digital Filmmaking (4)
RS 162 Religion and Filmmaking (4)
TA 153 Contemporary Theatre and Film Performance (4)

Portfolio or Capstone Project (up to 2 units)

This project will be completed in the context of an internship, film production, or existing course as approved by the minor advisor.

Electives: 8 units

Two of the following, not taken above:

APP 060/160 Film Production (1-2)
APP 190 Internship (1-4) as approved by the minor advisor
ART 065 Digital Tools (4)
ART 131 Theory and Criticism in the Arts (4)
COM 107 Focus on Film (1 unit, may be repeated for up to 4 units as topics change)
COM 125 Media and Mass Communication (4)
COM 129 Persuasion and Propaganda (4)
COM 140 Studies in Communication Ethics (4)
COM 148 Postmodern Narratives (4)
ENG 101 Film Studies (4)
ENG 111 Screenwriting I (4)
ENG 112 Screenwriting II (4)
ENG 113 Screenwriting III (4)
FLM 030 Introduction to Digital Filmmaking (4)
FLM 130 Documentary Filmmaking (4)
HIS 082 History of the Israeli-Palestinian Conflict through Film (4)
POL 142 Politics of Film (4)
RS 132 Theology in Film (4)
RS 162 Religion and Filmmaking (4)
SP 130 Hispanic Film and Literature (4)
TA 010 Acting I: Foundations (4)
TA 038 Lighting Design (4)
TA 125 Directing for the Theatre (4)
TA 145 Writing for Performance (4)
TA 153 Contemporary Theatre and Film Performance (4)
Film courses from off-campus programs, as approved by the Registrar and minor advisor (Los Angeles Film Studies Semester, etc.)

No more than 9 units may come from a single department, and no more than 6 units may overlap with a major.

Lower-Division Course Descriptions

FLM 030 Introduction to Digital Filmmaking (4) An introduction to the art of digital filmmaking. Students will work collaboratively on film production, including conceptual work, storyboarding, storytelling, and techniques of pre- and post-production, culminating in the public presentation of their work.

Upper-Division Course Descriptions

FLM 130 Documentary Filmmaking (4) Prerequisite: FLM-030. An introduction to documentary filmmaking, including professional practices, legal considerations, and ethical issues surrounding the craft. Projects require students to engage in the creative and technical aspects of developing nonfiction story ideas.

French

***D*escription of the Major**. The study of a foreign language prepares us to live in an ever-shrinking world. But the joy of studying a language and its literature lies in our widening perspective and growing appreciation, not only of the world's rich and varied cultural heritage, but of people shaped by a civilization different from our own. Historically, the French have had a pivotal influence on diplomacy, politics, and economics as well as on mathematics, the sciences, theology, philosophy, literature, and every form of art.

The great body of French and Francophone literature allows us to live vicariously the history, philosophy, sociology, and psychology of another nation. The French major develops the capacities for a sensitive and refined use of language and affection and admiration for peoples whose cultural achievement is distinguished.

***D*istinctive Features.** The French major combines the experience of living and studying in a foreign country with that of the residential liberal arts college. French majors may choose either fall or spring semester, usually in their sophomore or junior year, to take a full course of study (15-16 units) at an approved university in a region where French is the native language. Course offerings vary from year to year and from university to university, but always include language, literature, and civilization and culture classes. Westmont students majoring in French may choose one of these institutions in France: the CIEE (Council of International Education Exchange) in cooperation with the Université de Paris-Sorbonne or IAU (Institute American Universities in Aix-en-Provence) College.

Close student-faculty relationships, small class sizes, excellent language materials and internet resources, and flexibility in the curriculum all contribute to meet students' needs in studying French.

Due to the role France and the French have played in the world's culture and civilization, the French major lends itself particularly well to doubling with majors in English, religious studies, political science, philosophy, economics and business, mathematics, history, art, music, and theatre arts, among others.

***C*areer Choices**. A liberal arts and sciences education opens the door to a broad range of vocations. French majors usually develop the skill to express themselves gracefully and the cultural sensitivity to understand others. These competencies enhance their contribution to every profession. Every field needs people prepared to communicate meaningfully with others, especially foreign missions, domestic human-service agencies, medicine, education, international business, law, government services, and the arts.

Requirements for a Major: 40-44 units

A. Language and Literature Track: 40 units

French majors must take 40 upper-division units in French, including one semester of 15-16 units at an approved university in a region where French is the native language. The minimum prerequisite to study abroad toward the major is four semesters of college French (or equivalent) and FR 150, Cross-Cultural Studies. It is recommended that students fulfill their general-education requirements with courses that contribute to their understanding of France and the Francophone world.

B. French Studies Track: 44 units

FR 150 Cross-Cultural Studies (4)
Three of the following: (12)
- FR 101 Survey of French Literature I (4)
- FR 102 Survey of French Literature II (4)
- FR 103 French Theatre of the 17th Century (4)
- FR 104 French Novel of the 19th Century (4)
- FR 105 French Literature of the 20th Century (4)
- FR 111 Contemporary French and Francophone Cultures
- FR 195 Seminar (4)

Three of the following: (12)
- ART 127 Nineteenth Century Art: Origins of Modernism (4)
- ENG 106 Language Acquisition (4)
- HIS 134 Reformation Spirituality (4)
- HIS 142 European Intellectual History, 1650-Present (4)
- HIS 144 Revolutionary Europe (4)
- HIS 145 The Making of Modern Europe (4)
- PHI 135 Philosophy of Language (4)

Off-Campus Semester: 15-16 units

Upper-division level courses in language, literature, civilization, and culture approved by the major advisor in France, Québec, or French Switzerland.

Requirements for a Minor: 20 units

20 units, 12 of which must be upper-division.
At least one upper-division course (4 units) must be taken on the Westmont campus.
(Note: FR 150 does not count for the French minor, as it is taught in English; it does count for the major.)
French minors intending to study abroad must first complete a minimum of two semesters of college-level French, though three are recommended. Prior to their semester abroad, French minors should work carefully with their advisors to ensure all courses taken off campus will count for the minor.

Lower-Division Course Descriptions

FR 001 Elementary French I (4) Pronunciation, conversation, essentials of grammar and composition. For students who have had no French at all or whose language placement test results indicate French I.

FR 002 Elementary French II (4) Prerequisite: FR 001 or Language Placement Test. A continuation of French 001.

FR 003 Intermediate French I (4) Prerequisite: French 002 or Language Placement Test. Review and reinforcement of pronunciation, grammar, and composition. Reading of selected materials for discussion in French and an introduction to French literature and culture.

Upper-Division Course Descriptions

FR 100 Advanced French Grammar and Composition (4) Prerequisite: FR 003, placement test, or instructor permission. This is an intensive course designed to reinforce students' reading, oral, and written skills in French. This course helps you transition from your study of French as a language/grammar system to being able to use the language gracefully and effectively to approach the cultures and literatures that use it as their primary means of expression. Emphasis is on skills such as composition and advanced reading comprehension to develop your vocabulary and familiarity with the finer points of French grammar and syntax.

FR 101 Survey of French Literature I: Middle Ages to 1800 (4) Prerequisite: FR 003 or equivalent. An historical overview of French literature through the medieval and renaissance periods, 17th and 18th centuries. All lectures, oral presentations, and class discussions given in French; all papers and examinations written in French.

FR 102 Survey of French Literature II: 1800 to Present (4) Prerequisite: FR 003 or equivalent. An historical overview of French literature through romanticism, realism, symbolism, and modern periods. All lectures, oral presentations, and class discussions given in French; all papers and examinations written in French.

FR 103 French Theatre of the 17th Century (4) Prerequisite: FR 003 or equivalent. Masterpieces from the Baroque and classical periods in 17th century drama, tragedy, and comedy. Original texts read and discussed in French; all papers and examinations written in French.

FR 104 French Novel of the 19th Century (4) Prerequisite: FR 003 or equivalent. Literary classics of the romantic, realist, and naturalist movements. Original texts read and discussed in French; all papers and examinations written in French.

FR 105 French Literature of the 20th Century (4) Prerequisite: FR 003 or equivalent. Major achievements in novel, poetry, drama, and screenplay. Original texts read and discussed in French; all papers and examinations written in French.

FR 111 Contemporary French and Francophone Cultures (4) Prerequisite: FR 003 or equivalent. A survey of some of the social, cultural, and political issues in contemporary France (as well as their historical context), through analysis of representative materials including films, songs, short texts, comic strips, and popular culture from the 20th and 21st centuries. Themes in this course include language and identity, immigration, and climate change, among others.

FR 150 Cross-Cultural Studies (4) A course designed to help you get the most out of your study abroad experience by preparing you for it intellectually, culturally, emotionally, and spiritually. Taught each Spring for students planning to study abroad the following academic year. (Note: This course is taught in English and does not count for the French minor.)

FR 180 Introduction to Postcolonial Francophone Studies (4) Prerequisite: FR 100, placement test, or instructor permission. In this course, students will focus on historical, social, and political aspects of the Francophone world (La francophonie, les traditions, la famille, l'immigration, la condition feminine, etc.) by studying different strategies to enhance oral and written expression. Students will have multiple opportunities to express their ideas in oral and written French and to develop strategies and the vocabulary necessary to analyze the texts and other course documents.

FR 190 Internship (1-4) Prerequisite: consent of the instructor. Supervised field work in the Santa Barbara area in which the student has the opportunity to use his or her French. Field work may be in schools, businesses, churches, social service agencies, etc. An ongoing personal log and a portfolio of work accomplished as well as regular sessions with the supervisor are required.

FR 195 Seminar (2-4) Prerequisite: FR 003 or equivalent. Advanced study on a single author, genre, or topic. Recent seminar: The Chivalric Tradition in French Literature.

FR 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Gender Studies Minor

Professors H. Keaney, C. Reeder (Program Coordinator), H. Rhee
Associate Professors S. Jirek, S. Skripsky , M. Stirling

Description of the Minor. The gender studies minor is designed to be an interdisciplinary exploration of genders in historical contexts, global expressions and theoretical frameworks. Students will examine the significance of gender to politics, culture, history, philosophy, psychology, theology, communication, theater, language and religion.

Career Choices. Students with a minor in gender studies gain knowledge and develop skills relevant to contemporary ministry, management, social work and education, as well as for government and not-for-profit leadership. The program's interdisciplinary nature provides students with opportunities to sharpen their awareness of current issues and theoretical frameworks in gender and to hone the sophistication of their thinking, speaking and writing across a variety of academic and professional audiences—the church, management, education, politics, the arts. In short, a minor in gender studies prepares students to step into significant conversations and activities happening throughout the public sphere.

Requirements for a Minor: 24 units

Required Courses: 4 units

AN/SOC 135 Gender in Cross-Cultural Perspective (4)
ENG/GS 119 Feminist and Gender Theory (4)
GS/RS 134 Gender in Theological Perspective (4)
(or a substitute RS course with program coordinators permission)

Electives: 20 units

At least 4 of the elective units must be chosen from the following:
HIS 188 Women in the Middle East (4)

At least 4 of the elective units must be chosen from the following:
ART 162 Screen Printing (4)
ENG 160 Women Writers (4)
SP 180 Latin American Women Writers (4)
TA 140 Race and Gender on the American Stage (4)

Remaining electives may be chosen from the courses above, or from the following courses, but no more than eight units from a single academic department may count toward the minor:
ENG 060 Writers in Conversation: Gender and Literature (4)
SOC 130 Sociology of the Family (4)
SOC 177 Interpersonal Violence (4)
Internships (190, up to 4 units) and Special Topics (195) courses focusing on gender as offered by various departments.

Upper-Division Course Descriptions

GS 119 / ENG 119 Feminist and Gender Theory (4) Prerequisite: one literature course or one course in gender theory. This course will acquaint students with influential feminist and gender theorists to build a foundation for further study of both feminism and literary theory. From that foundation, discussions will explore narrative's place in theory and engage connections and tensions between Christian teachings and feminist thinking and action.

GS 134 / RS 134 Gender in Theological Perspective (4) Study of key issues and questions relating to gender in the context of and in interaction with sacred texts, theologies, or religious communities. Specific topics addressed will vary by semester. Course may be repeated for credit.

Global Studies Minor

Associate Professor C. Toms

Description of the Minor. The Global Studies Minor blends off-campus study, interdisciplinary analysis, language learning, and advanced research into a program designed to help graduates study and work in an interconnected world. For several decades, Westmont has offered multiple opportunities for students to spend a semester off-campus, often overseas; the minor is designed largely for students returning from off-campus study who are eager to expand their exploration of global issues, transnational processes, and interactions once they return. By supplementing an off-campus semester with further readings, discussions, and research, the minor will strive to strengthen connections between global learning and the liberal arts, and will also help equip students for careers, study, and service in international arenas. It will also seek to prepare students for graduate work in international affairs, international business, peace studies, area studies, and the emergent global civil society.

Requirements for a Minor: 26 - 28 units

Required Courses: 6-8 units

GLS 140 Global Studies Seminar (4)
GLS 141 Global Studies Capstone (2-4)

Off-Campus Semester: 12 units

An off-campus study experience in a Westmont sponsored or approved program.

Further Study in a Single Language: 2 courses

At least two progressive courses in a single language.

Upper-Division Course Descriptions

GLS 140 Global Studies Seminar (4) Global Studies is the academic study of political, economic, ecological, and cultural relations and processes that affect communities around the world. Oriented around the study and forces of "globalization", the field incorporates areas as diverse as market relations, the movement of commodities, global communications and consumption, refugees, migrants, and other movements of people around the globe. Global Studies also incorporates transnational and local trends in its curriculum insofar as they illustrate broader questions of global change.

GLS 141 Global Studies Capstone (2-4) This course is a senior seminar that offers a capstone experience for the Global Studies minor. In this course, students will strengthen their conceptual, methodological, applied, and faith-based learning competencies while crafting a substantial original research paper. The course will help students apply concepts within the field of global studies as well as comparative perspectives on a particular topic of interest relevant to social, cultural, and global situations. Students will be encouraged to consider undertaking research that is community-based and explores an issue with local connections and global implications.

History

Professors A. Chapman, H. Keaney, M. Robins (chair)
Assistant Professor S. Morrisset, A. Su

Description of the Major. History is the study of human activity in the world and its meaning from the earliest times to the present. It explores different dimensions of human interactions in their environments, including politics, economics, religion, culture, and ecology, and thereby enables students to interpret their own society better.

The study of history sharpens analytical and critical skills essential to intelligent citizenship in today's world. It fosters the ability to ask good questions, to understand situations from several vantage points, to cultivate humility, and to understand and appreciate other times, people, and cultures. Students learn to conduct research and communicate their findings clearly. All these skills are readily transferable to a wide range of careers.

The history department provides courses in a variety of time periods and geographic areas. Students gain familiarity with the methodology and philosophy of historical study. All courses nurture research and writing skills.

Within the History major students can choose one of the four "tracks" that best aligns with the student's particular interests and goals. The General History track provides a broad curriculum that allows flexibility for double majors and off-campus programs. It includes a balance of western and non-western course offerings and provides a strong foundation in historical methods. It is the track taken by those considering a wide range of professions or graduate programs. The International Studies track allows students to combine the study of history with a more focused approach on their region of emphasis (usually from the following: Middle East, Latin America, Spain, and France). Students travel on an off-campus program to immerse themselves in another culture and learn a foreign language (Spanish, Arabic, or French). The History Graduate School track prepares students for graduate studies in history or related fields and for careers in graduate teaching and research. Students are encouraged to complete a major-honors research project. The Secondary Education track is designed for students interested in teaching. It can be completed on a four-year fast track plan for a secondary teaching credential in history/social science.

Distinctive Features. The history major begins with Foundations of History, a course that teaches students the skills of the historian's trade, namely reading primary and secondary sources, historical research, and writing with a clear argument and good evidence. Upper-division classes require students to use these skills as they learn about a particular area and time period. Courses emphasize careful reading, discussion, integrity in the handling of sources, writing, and analysis of differing interpretations. Students complete their major in a senior seminar that requires them to produce a substantial piece of historical research on a topic of their choosing.

Many students spend a semester abroad during the course of their studies. Some do so as part of the major's International Studies track. There is also a track for those who wish to pursue a career in secondary education. Students considering graduate work in

history are encouraged to do the Graduate Studies track, which requires significant work in a foreign language.

Career Choices. History graduates pursue a wide range of careers. Most make their way into fields such as law, business, non-profit work, management, government service, and Christian ministry. The major's emphasis on research and writing produces clear thinkers and able communicators who flourish in a variety of occupations. Other graduates pursue a teaching career in elementary or secondary schools. Some proceed to graduate school and become professional historians, archivists, or other types of public historian.

Requirements for a Major: 40-52 units

A. General History Track: 40 units

Required Courses: 12 units

HIS 009 World Civilizations to 1750 (4)
HIS 099 Foundations of History (4)
HIS 198 Senior Research Seminar (4)

Required Upper-Division Courses: 20 units

One of the following: (4) Modern Europe
- HIS 142 European Intellectual History, 1650-Present (4)
- HIS 144 Revolutionary Europe (4)
- HIS 145 The Making of Modern Europe (4)

One of the following: (4) United States
- HIS 173 Civil War and Reconstruction America (4)
- HIS 174 God and Mammon in America (4)

One of the following: (4) Early Modern Europe
- HIS 121 Medieval Mediterranean (4)
- HIS 134 Reformation Spirituality (4)

Two of the following: (8) Non-Western/Non-U.S.
- HIS 161 Latin America to Independence (4)
- HIS 162 Modern and Contemporary Latin America (4)
- HIS 180 The Age of Islamic Empires, 600-1800 (4)
- HIS 181 The Modern Middle East, 1800-Present (4)
- HIS 182 History of the Israeli-Palestinian Conflict (4)
- HIS 188 Women in the Middle East (4)

Additional HIS Electives: 8 units

B. History Graduate School Track: 48 units

Completion of the Standard Track (40).
Completion of 8 units of Intermediate Modern Foreign Language (8)
Recommended: completion of a major honors project supervised by the History Department.

C. International Studies Track: 52 units

The International studies track combines a regional specialty with historical context. It has three primary features: first, an inter-disciplinary component so students can craft a major that reflects their personal interests; second, a language component that reflects the historian's desire to see the world through the eyes of others; and third, an integrated study abroad experience.

Requirements in history (36)

HIS 009 World Civilizations to 1750 (4)
HIS 099 Foundations of History (4)
HIS 198 Senior Research Seminar (4)
24 additional units of history, of which 20 units must be upper division. Students must complete at least 8 units of upper-division history in their region of emphasis, and at least 8 outside their region of emphasis.

Foreign language (8)

8 units of foreign language appropriate to the region of emphasis. If the language chosen is offered on campus, 4 of the 8 units must be upper-division.

Requirements in related fields (8)

8 units of upper-division related coursework in the region of emphasis (e.g. SP/FR 150 Cross-Cultural Studies) as approved by their major advisor. These units may be in history.

Off Campus requirement

Students will complete one semester in an overseas program in the region of emphasis as approved by their major advisor and in consultation with the off-campus program office.

Secondary Education Teacher Track: 52 units

Required Lower-Division Courses: 28 units

HIS 007 United States to 1877 (4)
HIS 008 United States 1877-Present (4)
HIS 009 World Civilizations to 1750 (4)
HIS 099 Foundations of History (4)
POL 010 American Government (4)
EB 010 Principles of Microeconomics (4)
EB 011 Principles of Macroeconomics (4)

Required Upper-Division Courses: 24 units

HIS 178 California History (4)
One of the following: (4)
HIS 173 Civil War and Reconstruction America (4)
HIS 174 God and Mammon in America (4)
HIS 198 Senior Research Seminar (4)
One upper-division course in European history (4)
One upper-division course in Non-Western history (4)
One upper-division elective in history (4)

Recommended Courses:

ENG 106 Language Acquisition (4)
ED 105 Perspectives on Cultural Diversity and Education (4)
ED 130 Special Education for the Classroom Teacher (2)
ED 161 Technology for the Classroom Teacher: Secondary (2)
KNS 156 Health Education for the Classroom Teacher (2)
Additional course work in American politics, international politics, the American economy, and the global economy.

Requirements for a Minor: 20 units

Required Lower-Division Course: 4 units

HIS 099 Foundations of History (4)

Required Additional Courses: 16 units

Students must complete 8 units of Western (United States, Europe) history and 8 units of non-Western (Latin America, Middle East, Asia) history. 12 units must be upper-division.

Lower-Division Course Descriptions

HIS 007 United States to 1877 (4) A survey of America's political, economic, social, and cultural development from the first encounters of Europeans and Native Americans through the Civil War and Reconstruction.

HIS 008 United States 1877-Present (4) A survey of America's political, economic, social, and cultural development from the aftermath of Reconstruction through the present.

HIS 009 World Civilizations to 1750 (4) A survey of world civilizations from earliest times to 1750. Exposes students to the historical development of a range of Western and non-Western cultures and emphasizes global contacts in all historical eras. Given the number of elementary teaching candidates enrolled in this class, careful attention is given to the content required by the State of California, as delineated in Appendix A of the *Standards of Program Quality and Effectiveness for the Subject Matter Requirement for the Multiple Subject Teaching Credential* and the *History-Social Science Content Standards for California Public Schools, K-12.*

HIS 010 Perspectives on World History (4) An exploration of world history during the early modern and modern eras. Students will consider key themes and texts across a range of world cultures and will be encouraged to develop a thoughtful and historical approach to cultural diversity while gaining a narrative understanding of the sweep of world history. The course will expose students to various Christian perspectives within and upon world history, as well as multiple other perspectives on the past.

HIS 045 Environmental History of the Holocaust (4) A study of the Holocaust (1933-1945) that pays particular attention to the environmental factors as they impacted the manner in which the Holocaust was perpetrated, the experience of the victims, and relationships between the victims and their neighbors as well as perpetrators. The class also examines the ways in which Nazis conceived of the Holocaust as an ecological project, and how it did fit into their understanding of nature. Finally, it considers the relationship between commemoration practices and the environment.

HIS 047 Reacting to the Past (4) An exploration of two defining historical crises through role-playing games. Students take on particular roles and act out particular debates from the past. Reacting to the Past is an opportunity to put yourself in the past and see things from the perspective of people who lived there.

HIS 082 History of the Israeli-Palestinian Conflict through Film (4) An introduction to the Israeli-Palestinian conflict through analysis of films about the Conflict.

HIS 099 Foundations of History (4) An introduction to the discipline of history. Includes development of research, analytical, and synthetic skills. Requires evaluation, organization, and writing.

Upper-Division Course Descriptions

HIS 121 Medieval Mediterranean (4) A cross-cultural study of Byzantine, Islamic and Western civilizations between the first crusade and the capture of Constantinople (1085-1204). Explores themes related to the individual history of each region (political, religious, and social structures) as well as the interactions between the three civilizations (holy war, commerce, cultural and artistic exchanges).

HIS 134 Reformation Spirituality (4) A study of the religious sentiment, daily life, and political culture in Europe between 1400 and 1700.

HIS 142 European Intellectual History, 1650-Present (4) A survey of classic works of the history of ideas since 1650.

HIS 144 Revolutionary Europe (4) Between 1750 and 1918, a series of political, economic, social, religious, and cultural revolutions changed the face of Europe. This course explores these revolutions, paying attention to the way other parts of the world both shaped events in Europe and were in turn shaped by them.

HIS 145 The Making of Modern Europe (4) Covers European history from the First World War to the present. Explores key events such as the First and Second World Wars, as well as major political developments such as democracy, Communism, and Fascism. The course runs to the present, exploring the history of contemporary issues such as immigration and attitudes to the European Union.

HIS 149 Russian Culture From the Golden Age to Stalin (4) A study of the development of Russian culture and history from circa 1812 to 1941.

HIS 151/RS 151 History of World Christianity (4) Surveys the history of Christianity from the New Testament to the present in Europe, Africa, Asia, and the Middle East, and from the colonial period to the present in North America and Latin America. Particular attention will be paid to intellectual, cultural, political, theological, and institutional developments in Roman Catholicism, Eastern Orthodoxy, and Protestantism.

HIS 161 Latin America to Independence (4) Latin America from pre-Columbian times through the wars of independence.

HIS 162 Modern and Contemporary Latin America (4) Nineteenth and twentieth centuries; inter-American relations; the role of Latin America in world affairs.

HIS 173 Civil War and Reconstruction America (4) An intensive study of the United States amid sectional conflict, civil war, and Reconstruction in the mid-nineteenth century.

HIS 174 God and Mammon in America (4) A study of the rise of Christianity and capitalism in the United States—their synergies, tensions, and contradictions—from their colonial origins to the modern era.

HIS 178 California History (4) A survey of California's history from its indigenous roots to the recent past, focusing on the complex and long-term interaction between social, economic and environmental change.

HIS 180 The Age of Islamic Empires, 600-1800 (4) An examination of the social organizations, cultural expressions, political institutions, and religious commitments that evolved in the so-called "Islamic World" from the rise of Islam in Mecca to its Imperial capitals in Baghdad, Isfahan, Delhi, and Istanbul.

HIS 181 The Modern Middle East, 1800-Present (4) An introduction to the political, intellectual, religious, and cultural encounters that have shaped the Middle East, from the reform and break-up of the Ottoman Empire to European imperialism and the rise of nation states. The course provides regional and historical context for such topics as women's rights in Islam, the Israeli-Palestinian conflict, Islamism, the Iranian Revolution, and the Arab Spring.

HIS 182 History of the Israeli-Palestinian Conflict (4) An intensive study of the historical roots and contemporary realities of the Arab-Israeli conflict.

HIS 185 Imperialism and Independence (4) Prerequisites: HIS 010. An exploration of the ideology and politics of British imperialism during the nineteenth and twentieth centuries, along with "anti-imperial" movements in Asia, Africa and the Middle East. Special attention is given to cultural, religious, and intellectual responses to colonial modernity by non-Western peoples.

HIS 188 Women in the Middle East (4) This course compares the portrayal of women in Islamic texts with the lived experience of women in the Middle East and explores the rise of feminist movements as a part of modern anti-imperialist and nation building projects. The course engages with debates about the potential for "Islamic" and "western" feminisms to empower and oppress women and challenges the assumption that culture and religion, rather than politics and economics, are more determinative for women in the Middle East.

HIS 190 Internship (4-8) Supervised field work in historical societies, government, business, and related areas in Santa Barbara or San Francisco.

HIS 195 Topics in History (4) A seminar class that focuses on a selected subject. Sample topics include the American West, Church/State relations in Latin America, the Black Death, the Enlightenment, and the Jewish question in European history. The course may be repeated if the topic of concentration changes.

HIS 198 Senior Research Seminar (4) Prerequisite: Junior standing and HIS 099. Guided research on a problem of historical interest. Culminates in a major paper.

HIS 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Interdisciplinary Studies

Lower-Division Course Descriptions

IS 001 Research Across the Disciplines (2) Encourages students to embrace research methodology as a fundamental way in which we can study and interact with the world around us. Explores how humanists, social scientists, and natural scientists approach these issues through close examination of phenomena, texts, and other artifacts. Invites students to critically examine their assumptions about research and prepares them to participate in scholarly discourse. Increases students' confidence to locate, evaluate and incorporate sources into their academic work. Course is graded but can also be taken as P/NC.

IS 010H Augustine and the Christian Tradition I: Faith Seeking Understanding (4) Prerequisite: Augustinian Scholars Program. This course offers an introduction to higher education as a Christian calling, exploring the pursuit of truth as a lifelong journey that is closely linked to spiritual commitments, communities, and formation. By engaging with primary texts, seminar discussions, interdisciplinary guest speakers, and written communication, students are introduced to select thinkers in the Christian intellectual tradition, including St. Augustine of Hippo, the North African bishop renowned for his contribution to Christian thought.

IS 014 Learn To Thrive (1) This course is designed to assist students in developing the skills and strategies necessary to become effective learners. Students will explore a range of topics related to learning, including positive psychology, metacognition, time management, study skills, motivation, physical health, character strengths, and resilience training. Through interactive activities and discussions, students will acquire the ability to apply these concepts to their own learning and academic success.

IS 020H Augustine and the Christian Tradition II: Pilgrim Citizens (4) Prerequisite: Augustinian Scholars Program. Thematically grounded in St. Augustine's rich theology of the two cities, this course draws from the Christian intellectual tradition to enrich students' understanding of society, its institutions, and their callings to love both God and neighbor. Using a pilgrimage framework, the course invites students to pursue increasingly faithful citizenship through reflective participation in activities and service.

IS 030H Augustinian Seminar: Stories Worth Telling (1) Prerequisite: Augustinian Scholars Program, years 2 or 3. This course provides a context to explore and enjoy a good story (biography, fiction, history, etc.) together, focused on one or more narratives chosen by the instructor in light of her/his interest and expertise.

IS 031H Augustinian Seminar: Calls Worth Answering (1) Prerequisite: Augustinian Scholars Program, years 2 or 3. This course offers an opportunity for inquiry into the ideas of Christian vocation, application of those ideas to students' lives, including structured opportunities for service and post-college preparations.

IS 032H Augustinian Seminar: The Global, Local Church (1) Prerequisite: Augustinian Scholars Program, years 2 or 3. This course inquires into the past, present, and/or future of the Christian Church, exploring dimensions of both its universal and local nature, and its unity and diversity (relative emphasis will vary).

IS 033H Augustinian Seminar: Interpersonal Relationships (1) Prerequisite: Augustinian Scholars Program, years 2 or 3. This course explores facets of human relationship in interdisciplinary Christian perspective. Emphases may include friendship, marriage, children, professional, etc., explored from theological, psychological, historical, philosophical, literary, and/or sociological perspectives etc.

IS 034H Augustinian Seminar: Stewardship (1) Prerequisite: Augustinian Scholars Program, years 2 or 3. This course explores the human calling to steward finite resources of the created order, including natural resources, time, and money.

IS 035H Augustinian Seminar: Encountering Creation (1) Prerequisite: Augustinian Scholars Program, years 2 or 3. This course explores ways of seeing, understanding, and enjoying the created order from an interdisciplinary perspective.

IS 036H Augustinian Seminar: Topics (1) Prerequisite: Augustinian Scholars Program, years 2 or 3. Inquiry in a subject area as proposed by the instructor.

IS 051L Academic Writing Lab (1) A lab course that matches students with professional tutors so that students may better develop both writing skills and English-language fluency specific to academic and professional purposes.

IS 052 Fundamentals of Language Diction (2) This course explores the basics of diction, pronunciation, and articulation in Italian, German and French for singers and public speakers. The course is evenly divided (roughly 5 weeks each) between these three languages and assumes a working knowledge of the International Phonetic Alphabet. A semester of foreign study is recommended. French, German or Italian is advised. Primary sources for study will include the texts of standard classical song, oratorio and opera repertoire for singers, and appropriate additional poetry and prose material for public speakers.

IS 060 Emmaus Road Orientation (1) This course provides necessary training for students who will serve cross-culturally in the summer through Westmont's Emmaus Road organization. Students will gain knowledge and tools for entering another culture as well as learn about the specific ministry context and culture, in which they will engage. Because the students travel in teams, the class also addresses group dynamics and facilitates trust building.

IS 070 Introducing Christian Liberal Arts Education (2) This course explores the distinctive nature, purposes, and value of a Christian liberal arts education as well as its place in the wider landscape of American higher education. Issues addressed include the historical development of liberal arts education, the relationship between the Christian faith and higher education, different kinds of academic institutions in contemporary American higher education, the college selection and admissions processes, and the demographics of higher education.

IS 070SS Liberal Arts Ambassadors (0) The ambassadors work in local high schools and non-profit organizations as mentors and tutors for students from underserved backgrounds. The ambassadors will be able to talk knowledgeably with the students they are helping about the value of college, about the range of college options available to them, and particularly about the value of the liberal arts alternative. Meets the Serving Society and Enacting Justice GE requirement.

Upper-Division Course Descriptions

IS 100H Augustinian Senior Capstone Seminar (2) The Augustinian Capstone Seminar is a two-unit seminar taken for one semester during scholars' final academic year. This course provides a conclusion to the Augustinian program, revisiting select questions, texts, and ideas from the Christian intellectual tradition and exploring how their meaning may be extended, enriched, challenged, applied, and shared – particularly in light of the scholars' majors, minors, and global studies. It provides an experiential introduction to the Christian practice of spiritual direction and invites scholars to look ahead at what it will mean to be an Augustinian beyond their time at Westmont, exploring and imagining together how ongoing intellectual inquiry and Christian formation may look for life-long seekers after Truth.

***IS 121 - IS 129 Culture and Society** (4) Studies various aspects of history, thought, arts, society, culture, science, economy, and politics while resident in a foreign country. Special effort is made to understand the heritage and contemporary society in relation to larger world contexts. Emphasizes thoughtful consideration of Christian and cultural concerns through preparatory readings, lectures, extensive discussion, and essay writing.

***IS 143 Faith, Poverty, and Justice** (3) Introduces students to a biblically-rooted, globally-oriented and culturally-informed understanding of the relationship between Christian faith, social justice, and poverty with particular focus on the challenges of globalization, economic injustice, and related issues that impact the well-being of the "least of these" in our midst. Students will also be exposed to models, approaches, and responses aimed at cultivating vision and faith practices that point the way to the integration of spirituality and social action personally and collectively.

***IS 144 Sociology of Immigration and Urban Poverty** (3) Introduces students to the Asian, Latino, and African immigrant experiences in urban areas, problems and prospects in upward social and economic mobility, the role of immigrant church communities, and urban Christian communities and ministries in immigrant neighborhoods.

***IS 145 21st Century Technology and the Meaning of Life** (3) Discusses the impact of modern digital technology on human well-being and flourishing from a philosophical, psychological, and theological perspective. Forms of digital technology studies in the class include social media, gaming, and digital entertainment. Students will learn the impacts of technology on their own lives and on society in general, and how to use technology in ways that foster healthy relationships, positive human development, and the common good.

IS 167 Tutor Training (1) Prerequisite: by invitation or consent of the instructor. A practicum course in teaching and learning for students who facilitate group study sessions and/or 1:1 tutoring for students in specified courses. This course is aligned with and certified under the International Tutor Training Certification program of the College Reading and Learning Association (CRLA).

IS 185 Orientation Off-Campus Program (2) Designed for students intending to participate in an off-campus program. The overarching goal of the course is to help students get the most out of their study abroad experience by preparing them for it intellectually, culturally, emotionally, and spiritually.

***IS 187 Social Entrepreneurship** (4) Social entrepreneurship is a rapidly emerging field dedicated to the launch and growth of for-profit and non-profit ventures that hold a determined social mission – that is, enterprises that strive to advance social change via capital market structures and inventive business models. The purpose of this course is to expose students to viable business models in social enterprise. We will explore various aspects of entrepreneurship, including but not limited to a general survey of the values, ethics, principles, and philosophy of entrepreneurship and the manner by which new ventures are envisioned, developed, and unleashed in the competitive marketplace.

***IS 188 Engaging the City** (1) Provides essential background and context to help students understand the history and diversity of San Francisco and the challenges and opportunities facing the contemporary city in which they will be living, learning, and working for a semester.

***IS 189 Faith, Culture, and Diversity** (4) Introduces students to ways of cultivating deeper awareness of faith-based engagement with cultural difference and diversity, specifically in relation to the urban context of the San Francisco Bay Area which will serve as the living-learning laboratory for an integrative exploration into the biblical-theological, psycho-social and intercultural dimensions of compassionate engagement with difference amidst the complex religious, race, class and gender divides which shape our times. Through readings, class discussions, guest speaker visits and field study projects the course is designed to expand students' cultural intelligence through a critical understanding of social privilege and inequality guided by a committed and hospitable Christian worldview perspective.

***IS 190 Off-Campus Program Internship** (8) A course engaging students in a highly structured internship experience aimed at cultivating new vocational, cross-cultural and critical reflective skills amidst a diverse range of professional settings. It is a required part of the Westmont in San Francisco and Westmont Downtown curriculum wherein students spend a minimum of 24 hours each week at their chosen internship placement site in addition to completing regular reading, writing and oral presentation assignments as well as participating in a weekly integrative seminar class. Students receive 8 units of credit; some or all of which may done for major credit (departments vary in this regard) and/or in fulfillment of the "Serving Society, Enacting Justice" General Education requirement.

IS 192 Orientation to Westmont in Mexico (2) Designed for students intending to participate in Westmont in Mexico (WIM). The overarching goal of the course is to help students get the most out of their study abroad experience by preparing them for it intellectually, culturally, emotionally, and spiritually. (Note: This course, in combination with IS 197, satisfies the SP 150 course for Spanish majors only.)

***IS 193 Seminar: Engaging Culture** (3) Required of all Westmont in Mexico (WIM) students, this seminar is a continuation of the spring orientation course and is designed to deepen understanding of Mexican culture and to maximize your experience abroad. The course complements other WIM classes and provides a framework for examining the issues and questions they present. Students will participate in several field trips and projects outside of the classroom designed to help them "engage culture." Regular readings, multiple reflective essays, and oral presentations will be regular parts of this course. Because the course is taught in English, IS 193 counts only for the Hispanic Studies track (Related Courses) of the Spanish major.

***IS 194 Independent Study** (1-4 units, by request) A 2-4 unit tutorial course of focused advanced study on a topic of the student's choice for either interdisciplinary credit or for elective major credit from selected departments. Students in the course develop a well-framed learning plan on their selected topic, including directed reading, writing, and field research assignments as well as regular meetings with the faculty advisor. The specific nature of these projects and assignments may differ from student to student, depending on the topic and type of credit sought. Students seeking major or department credit must have their learning contract approved by the appropriate department chair within the first two weeks of the semester.

IS 197 Reentry Seminar (2) Designed for students who have just returned from abroad. In the course, students will continue to reflect upon and process the overseas experience, to identify and explore unanswered questions provoked by the experience, to continue to refine cross-cultural skills, to learn appropriate ways to deal with challenges faced by reentry, and to find positive and practical ways to reconnect with the Westmont community. This course, in combination with IS 192, satisfies the SP 150 requirement for Spanish majors only.

**Denotes an off campus program. Admission to these courses is contingent on admission to the programs. Applications can be found on line at http://www.westmont.edu/_offices/ocp/ , or secured from the Off-Campus Programs Office.*

Kinesiology

Professors C. Toms, R. Smelley
Associate Professors T. Van Haitsma (chair), J. Willis, D. Wolf
Assistant Professors I. Gomez, B. Shagena
Instructor A. Wallace

***D*escription of the Major.** The discipline of kinesiology is the study of the art and science of human movement. This organized body of knowledge emphasizes scientific and educational research. General areas of study include the biophysical, sociocultural and behavioral spheres of kinesiology. Within these spheres are numerous subdisciplines, including biomechanics, physiology of exercise, motor learning, psychology of movement, sociology of movement, and pedagogy. The clinical arm of kinesiology includes subdisciplines such as clinical nutrition, clinical exercise physiology and gerontology.

The major curriculum provides a sound liberal arts background and an area of academic specialization. The department offers two tracks: 1) B.S. in Movement and Exercise Science, with particular emphasis in exercise science, pre- physical and occupational therapies, physician assistant, cardiac rehabilitation and other allied health fields and 2) B.S. in Movement and Biomedical Sciences, providing coursework for students seeking to gain admission to medical school, and for students interested in pursuing a PhD in kinesiology related fields.

***D*istinctive Features of the Major**. The kinesiology major gives the student the opportunity to study the many subdisciplines associated with the allied health professions and approach this discipline with a liberal arts and science focus. The internship/research requirement in the major gives students a chance to elect options in the work place (e.g. occupational therapy, physical therapy aid; assisting in the training room; assisting in a medical clinic; community health settings, and research). Seminar and small group discussion, incorporation of research, and active learning practices characterize courses.

The Kinesiology Department recognizes the tremendous value of an off-campus experience. In addition to campus-wide programs available to all students, five programs are available which offer unique application to the discipline of kinesiology. Courses in each of these programs meet requirements for the kinesiology major.

The Westmont in San Francisco program offers unique opportunities to select internship experiences in physical and occupational therapy, corporate fitness, strength and conditioning, and physician assistant programs.

Students can take part in a research program hosted at the University of Bath, in Bath, England where kinesiology students participate in several research projects alongside Westmont faculty, University of Bath faculty and doctoral graduate students. Advanced Anatomy is also offered with a week of instruction at the University of Edinburgh in Scotland. Note: This program does not run every summer.

The Westmont Global Health Partnership with Uganda Studies, on the campus of Uganda Christian University (UCU) in Mukono, Uganda, is based on a partnership

between Westmont College, UCU's Center for Global Engagement and the Uganda Studies Program (USP) operated by the Council for Christian Colleges and Universities (CCCU). Global health coursework, including pre and post classes on Westmont's campus and in Uganda, provides a significant global health experience for Westmont and other CCCU students.

The Ecuador and Galapagos Islands Mayterm allows students to explore the impact of the environment on the structural level for the human body, allowing students to take an elective within the kinesiology major while also exploring Ecuador and, arguably the most famous archipelago on earth – the galapagops! This program does not run every summer.

The Food Systems and Food Writing Mayterm allows students to immerse themselves in a transformative conversation spanning continents, cultures, and disciplines, connecting with writers, workers, growers, and makers who invite you into their passion for food and sustainability. This mayterm will help you learn about people, communities, and consumption patterns while taking several GE classes and an elective in the kinesiology major. This program does not run every summer.

***C*areer Choices**. The purpose of this liberal arts major is to provide a foundation of understanding and competencies in the discipline with an integrated Christian world view. Career options include: cardiac rehabilitation, coaching, corporate fitness, disability related pursuits, fitness management, gerontology services for older adults, global and public health, graduate studies in the sport or health sciences, medicine, medical technician, nurse practitioner, occupational therapy, personal trainer, physical therapy, physician assistant, sports medicine, and teaching.

***D*istinctive Features of PEA**. Physical education activity classes at Westmont encourage successful psychomotor development and provide a rationale for making exercise a priority in the stewardship of our bodies. Courses give students the skills and principles needed for a physically active life, including an exercise program to maintain physical well-being. The instruction-based program is diverse and developmental, and it encourages healthful, active, lifetime, leisure-based activities.

Requirements for the B.S. Major
Movement and Exercise Science Track: 53 units

Required Lower-Division Courses: 20 units

KNS/BIO 011 Human Anatomy (4)
KNS/BIO 012 Human Physiology (4)
KNS/BIO 040 Human Nutrition (4)
KNS 072 Foundations of Kinesiology (4)
MA 005 Introduction to Statistics (4)

Required Upper-Division Courses: 27 units

KNS 101 Biomechanics (4)
KNS 105 Physiology of Exercise (4)
KNS 148 Psychology of Movement (2)
KNS 149 Sociology of Movement (2)

KNS 166 Public Speaking in Kinesiology (4)
KNS 181 Special Populations (4)
KNS 185 Motor Behavior (4)
One course from the following: (1)
    KNS 190 Internship (1)
    KNS 198 Research (1)
KNS 195 Senior Capstone (2)

Electives: 6 units

KNS 087 Basic Physics Primer (1)
KNS 110 Cardiovascular Dynamics (3)
KNS 122 Nutrition for the Health Professional (2)
KNS 140 Food Systems (4)
KNS 141 Politics of Sports (4)
KNS 150 Topics Courses (1-4)
KNS 151 Prevention/Treatment of Athletic Injuries (3)
KNS 152 Therapeutic Exercise and Modalities (2)
KNS 155 Fundamentals of Movement (2)
KNS 156 Health Education for the Classroom Teacher (2)
KNS 159 Exploring Public Health (2)
KNS 160 Strength and Conditioning (3)
KNS 161 Fitness for Older Adults (2)
KNS 162 Physical/Psychological/Social Aspects of Aging (2)
KNS 190 Internship (1-4)
KNS 198 Research (1-4)

Movement and Biomedical Sciences Track: 70 units

Required Lower-Division Courses: 16 units

KNS/BIO 011 Human Anatomy (4)
KNS/BIO 040 Human Nutrition (4)
KNS 072 Foundations of Kinesiology (4)
MA 005 Introduction to Statistics (4)

Required Upper-Division Courses: 22 units

One of the following (4)
    BIO 102 Physiology (4)
    KNS 012 Human Physiology (4)
KNS 101 Biomechanics (4)
KNS 105 Physiology of Exercise (4)
KNS 181 Special Populations (4)
KNS 185 Motor Behavior (4)
KNS 195 Senior Capstone (2)

Medical Science Courses: 32 units

BIO 005, 006 General Biology I, II (4,4)
BIO 113 Biochemistry (4)

BIO 114 Genetics (4)
CHM 005, 006 General Chemistry I, II (4,4)
CHM 101, 102 Organic Chemistry I, II (4,4)

Requirements for a Minor: 24 units

Minor tracks are offered in coaching and movement science.

Movement Science Minor: 24 units

KNS/BIO 011 Human Anatomy (4)
KNS/BIO 012 Human Physiology (4)
KNS 101 Biomechanics (4)
KNS 105 Physiology of Exercise (4)
8 units of upper-division kinesiology electives

Coaching Minor: 24 units

KNS/BIO 011 Human Anatomy (4)
KNS 101 Biomechanics (4)
KNS 105 Physiology of Exercise (4)
KNS 148 Psychology of Movement (2)
KNS 149 Sociology of Movement (2)
KNS 166 Public Speaking in Kinesiology (4)
KNS 190 Internship (1)
One of the following:
KNS 151 Prevention and Treatment of Athletic Injuries (3)
KNS 160 Strength and Conditioning (3)

Preparation for Teaching Physical Education at the Elementary or Secondary Level

Students wishing to teach physical education should complete the regular requirements for the B.S. major. In order to complete a fifth-year Credential Program at Westmont, students should also complete four or more of the following (minimum of 12 units) prior to applying to the program.

ED 101 Explorations in Teaching: Secondary (4)
ED 105 Perspectives on Cultural Diversity and Education (4)
ED 130 Special Education for the Classroom Teacher (2)
ED 161 Technology for the Classroom Teacher: Secondary (2)
ENG 106 Language Acquisition (4)
KNS 156 Health Education for the Classroom Teacher (2)

In many cases, it is possible to complete requirements for the major and the Westmont Credential Program in four years. Such a "fast-track" schedule requires early planning, ideally beginning in the first year. Students wishing to complete such a program should refer to more specific advising materials available on the department webpage.

All students wishing to explore teaching physical education are also strongly encouraged to consult with faculty advisors in the Department of Education as early in their undergraduate program as possible, in addition to their major advisor.

Major Courses
Lower-Division Course Descriptions

KNS/BIO 011 Human Anatomy (4) A systems approach to the study of tissues and organ systems that make up the human body. An emphasis is given to skeletal muscle. Course is designed with careers such as nursing, physician, physician assistant, physical therapy, and sports medicine/personal training in mind. Lab required.

KNS/BIO 012 Human Physiology (4) Not for credit toward the B.S. in biology. Functional characteristics and interrelationships of the organ systems of the human body. Lab required.

KNS/BIO 040 Human Nutrition (4) Not for credit toward the B.S. in biology. Role of nutrients in human growth, development, and maintenance, including the chemistry and metabolism of carbohydrate, fat, and protein and the role of vitamins and minerals. The principles of energy balance, essentials of an adequate diet throughout the life cycle, and nutritive values of foods. Nutrition concepts applied to current nutrition issues and controversies (taught without laboratory).

KNS 054 First Aid and CPR (2) American Red Cross certification course designed to develop competence in the emergency treatment of victims of injury or sudden illness and cardiopulmonary resuscitation.

KNS 072 Foundations (4) Prerequisite: Freshman or sophomore standing only, or declared Kinesiology major. Recommended for students considering a kinesiology major or minor. Includes an overview of the discipline of kinesiology, an investigation of vocational and professional opportunities, and an overview of research methods including detailed guidance on how to read and understand a variety of different types of research.

KNS 087 Basic Physics Primer (1) Prerequisite: Sophomore standing or instructor permission. An introduction to quantitative and qualitative concepts in physics with a focus on human and animal systems. Students will be provided ample practice with problem solving to prepare for Biomechanics. The introductory topics will include coordinate systems, projectile equations, equations of equilibrium, free body diagrams, and torque.

Upper-Division Course Descriptions

KNS 101 Biomechanics (4) Prerequisites: Junior standing, KNS/BIO 011. Functional anatomy of the human musculoskeletal system with an emphasis on mechanical concepts and physical laws. Technology involved in biomechanical analysis (high-speed video analysis, dynamometry, electromyography and force plate analysis) is emphasized. Lab required.

KNS 105 Physiology of Exercise (4) Prerequisite: Completion of or concurrent enrollment in KNS 012, BIO 012, or BIO-102. Introduces the specialized knowledge associated with the metabolic, cardiorespiratory, and muscular responses and adaptations to exercise. Topics of endurance, strength, fatigue, and environmental factors will be applied to health, fitness, and performance objectives. Lab required.

KNS 110 Cardiovascular Dynamics (3) Prerequisite: KNS 012 or BIO 012. Physiology of the cardiorespiratory system. Includes ECG interpretation, stress test administration, exercise prescription, and pathophysiology.

KNS 120 Nutrition for Athletes (2) This course addresses the unique nutritional needs of various athletic populations. The athletic issues addressed are: weight gain, weight loss, ergogenic aids, endurance nutrition, and the female athlete triad. Also included in the course is an overview of the principles of normal nutrition and a healthy diet. A student project is an important part of the class.

KNS 122 Nutrition for the Health Professional (2) This course addresses the special nutritional needs of various clinical populations that the allied health professional will encounter. The clinical populations addressed are: the senior citizen, the diabetic, the cardiovascular disease patient, cancer, renal and liver disease, stress and gastro-intestinal diseases. Also included in the course is an overview of the principles of normal nutrition and a healthy diet.

KNS/AN 140 Food Systems (4) Surveys food production and consumption systems practiced in cultures around the world. Addresses issues of hunger, ethics of consumption and social and environmental justice.

KNS/POL 141 Politics of Sports (4) This cross-listed course examines the intersection of politics and sports. Because sports occupy an important place in most cultures, it is of little surprise that they are also highly politicized. Governments not only regulate athletics, but have used sports both as a tool of political socialization and as a means to advance the national interest in international affairs.

KNS 145 Motor Learning (2) This course covers advanced topics in motor development and motor learning across the age span and following injury. Topics include the role of attention, memory, stages of learning, instructions, augmented feedback, whole and part practice, distribution of practice, and mental practice.

KNS 148 Psychology of Movement (2) Application of psychological principles to the sporting and exercise environment.

KNS 149 Sociology of Movement (2) Application of sociological principles to the sporting and exercise environment

KNS 150 Topics Course (2-4) These courses are taught periodically and may be used as elective hours for a particular emphasis in the major or minor.

KNS 151 Prevention and Treatment of Athletic Injuries (3) Prerequisite: Junior standing. Students learn to organize and administrate a training room, acquire theoretical understanding and practical skills in first-aid protocol, injury evaluation, rehabilitation techniques, and recognize common injury pathologies.

KNS 152 Therapeutic Exercise and Modalities (2) Prerequisite: KNS 011. Students will develop competencies in injury evaluation, rehabilitation techniques and program prescription and design. In addition, students will gain an understanding of the theory, application and physiological effects of the electromagnetic spectra and how

this relates to therapeutic modalities. Course includes considerable laboratory experiences.

KNS 155 Fundamentals of Movement (2) Examines the psychomotor performance of children, including: basic movement patterns with complex applications, cognitive and affective dimensions, fitness, and choosing appropriate pedagogy.

KNS 156 Health Education for the Classroom Teacher (2) Overview of health-related issues based on the philosophical model of wellness education. Includes strategies and curriculum ideas for teaching health education. Meets the health education requirement for the California Teaching Credential.

KNS 159 Exploring Public Health (2) Overview of the broad field of public health, centering on health promotion and disease prevention. Discussions and activities promoting a greater understanding of public health as a system, as well as its interdisciplinary connections to other health care fields will be emphasized.

KNS 160 Strength and Conditioning (3) Prerequisite: KNS 012 and junior standing. Students will analyze strength and conditioning methodology in preparation for certification in either personal training or as a strength and conditioning specialist. The course will emphasize conditioning programs for varied populations. An integral aspect of the course is participation in all aspects of training within an individual or group setting.

KNS 161 Fitness for Older Adults (2) This course is designed to incorporate theoretical knowledge with opportunities for practical application involving exercise for older adults. Particular attention will be given to the impact of exercise on the aging process and the overall quality of life.

KNS 162 Physical/Psychological/Social Aspects of Aging (2) This seminar course is designed to expose students interested in the allied health fields to the growing body of knowledge in gerontology. Current research in areas such as cognitive functioning, the role of exercise on the aging process, the importance of social connections, personality changes in later life and other topics relevant to this stage in life are explored. This course has a practical component, providing opportunities for students to work closely with older adults in the Santa Barbara community.

KNS 166 Public Speaking in Kinesiology (4) Prerequisites: Junior standing. This course is designed to develop public speaking competencies in the context of kinesiology-related career pursuits. The strategies and tools for facilitating successful psychomotor outcomes for client, patient or learner are explored, placing the student in a role fully in charge of teaching others. This course meets the general education requirement for writing/speech intensive.

KNS 181 Special Populations (4) The study of disabilities encountered in clinical and educational settings, including description, etiology, and characteristics of a variety of physical and cognitive disabilities. In addition, this course is designed to broaden awareness of disability beyond traditional cultural attitudes and norms, emphasizing a social-political definition of disability.

KNS 185 Motor Behavior (4) Prerequisite: KNS 012. Introduces the current theories and concepts involved in the processes of motor skill acquisition and performance from a behavioral perspective; spanning the disciplines of motor control, learning, and development in one cohesive learning experience, with applications to clinical and other instruction settings.

KNS 190 Internship (1-4) Prerequisite: Junior standing. This course provides the opportunity for pre-professional internship opportunities in the community. The internship supervisor must approve laboratory teaching and other field experiences.

KNS 195 Senior Capstone (2) Prerequisite: Senior standing. Survey of relevant issues and trends in the discipline, culminating in a debate series. Students begin networking interviews, construct a professional resume, gain exposure to various career options and write a culminating senior paper.

KNS 198 Research (1-4) Laboratory and/or field research with a faculty member. Students will conduct experiments, analyze data, and present written and/or oral findings based on their work.

KNS 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Physical Education Activity Courses

All students must complete PEA 032 Fitness for Life and three different PE Activity courses to satisfy the PEA General Education requirement. Subsequent PEA courses in a given activity must be at a higher level. The varsity sport is considered the highest level.

Students may receive credit for a maximum of eight (8) units of PE Activity coursework toward their degree. This includes any transfer PE credit plus Westmont PEA credit.

Varsity athletes only are allowed to repeat their PEA varsity sport four times for credit and receive up to four (4) units of credit toward their degree. However, only one of their PEA varsity sport courses will be counted toward their PEA General Education requirement.

Students may be enrolled in only one PEA course per semester for credit. **Declared** KNS majors may be enrolled in two PEA courses for credit in a given semester.

Transfer students must complete one Westmont PE Activity course for each full year they are enrolled at Westmont, including PEA 032 Fitness for Life, or complete all four (4) PE Activity course requirements. *Please note: Reapplicants who originally entered Westmont as first-year students are not considered transfer students regardless of the length of time they were away from Westmont or the number of units they transfer back to Westmont on their return.*

PEA (001-099) Physical Activity (1) Schedule of classes will indicate course numbers. General offerings for all students: Aerobics, Archery, Badminton, Ballroom/Swing, Ballroom/Latin Swing, Cardio/Kickboxing, Fencing, Fitness for Life, Fitness by the Sea, Functional Training, Golf, Hip Hop, Lifeguard Training, Outrigger Canoeing, Outdoor Education, Personal Conditioning, Pickle-Ball, Pilates, Sailing, Scuba, Self-Defense, Soccer, Swimming, Tennis, Ultimate Frisbee, Volleyball, Water Aerobics, Weight Training, Yoga. Courses are offered depending on the availability of instructors.

PEA 032 Fitness for Life (1) The study and practical application of the health-related components of fitness. Founded on the "wellness model," the course emphasizes lifestyle changes and decisions leading to good health. Emphasis is on individualized programs based on pre-assessed fitness needs. The student will complete a 9-week program of aerobic activities selected by the student with instructor approval.

Liberal Studies

Associate Professor C. Mitten, Program Coordinator

Subject Matter Preparation for Elementary Teaching Candidates

Description of the Major: The liberal studies program is a multi-disciplinary major designed for those preparing to become elementary teachers. More than other majors at Westmont, the liberal studies major requires students to develop themselves in a wide range of academic fields. Although some courses are designed specifically with teacher candidates in mind, the primary emphasis of the program is to develop candidates' subject matter expertise.

Westmont's liberal studies program was designed with California Commission on Teacher Credentialing content standards (Elementary Subject Matter) in mind. Accordingly, the program offers prospective elementary teachers strong preparation for meeting state-required Subject Matter Competency requirements, including the California Subject Examination for Teachers (CSET).

Typically, students completing the liberal studies major immediately go on to enroll in a one-year Multiple Subject (K-6) credential program. For information on Westmont's Teacher Credential programs, refer to the Education Program.

Distinctive Features: With proper planning, students may complete the liberal studies major (including Westmont's general education requirements) and the teacher preparation program in four years, beginning their professional careers immediately after receiving the B.A. degree.

Careful, one-on-one advising guides liberal studies students at Westmont through the sometimes complex maze of California requirements leading to a teaching credential. Program personnel are consistently available and responsive to individual student questions.

Clinical placements in local elementary schools throughout the liberal studies major help to prepare students for the demands of a teaching credential program and the responsibilities of full-time teaching.

Liberal studies students who have completed the B.A. degree and who live off campus receive a scholarship (equal to a 55% reduction in tuition) during the student teaching semester. Note that this is given in lieu of other Westmont scholarships students may have received previously.

Career Choices: As noted above, the liberal studies major is explicitly designed for those pursuing a career in elementary teaching. In many cases, graduates of the Westmont program eventually go on to careers in special education, school administration, teacher education, or writing.

Requirements for Liberal Studies (Multiple Subject) Major: 113-117 units

Note: The outline of requirements below incorporates all of Westmont's General Education Requirements.

I. Language and Literature (20-24 units)

ED 172 Literature for Children and Adolescents (4)
ENG 002 Composition (4) (waived if a score of 580 on the SAT I Writing Component) or a score of "4" of "5" on AP language exam
ENG 104 Modern Grammar and Advanced Composition (4)
ENG 106 Language Acquisition (4)
Reading Imaginative Literature Requirement (4)
General Education Language Requirement (4)

For details of how students fulfill the College's writing intensive course requirements, please see Liberal Studies Handbook.

II. History/Social Science (16 units)

ED 105 Perspectives on Cultural Diversity and Education (4)
HIS 007 United States History to 1877 (4)
HIS 009 World Civilization to 1750 (4)
HIS 178 California History (4)

III. Mathematics and Computer Science (8 units)

ED 160 Technology for the Classroom Teacher: Elementary (2)
MA 160 Fundamentals of Mathematics I (4)
MA 165 Fundamentals of Mathematics II (2)

IV. Natural Science (12 units)

LS 012 Introduction to Life Sciences (4)
PHS 011 Introduction to Physical Sciences (4)
PHS 114 Earth Science (4)

V. Visual and Performing Arts (8 units)

ART 180 Art for Children (4)
MU 184 Music for Children (4)

VI. Health and Physical Education (7 units)

KNS 155 Fundamentals of Movement (2) [counts as one PE activity course]
KNS 156 Health Education for the Classroom Teacher (2)
PEA 032 Fitness for Life (1)
Two additional one-unit PEA courses (2)

VII. Human Development (4 units)

PSY 115 Child Development: Infancy Through Adolescence (4)

VIII. Preprofessional coursework (6 units)

ED 100 Explorations in Teaching: Elementary (4)
ED 109 Liberal Studies Seminar (2)

IX. Academic Concentration (10-12 units)

Each Liberal Studies major selects three full (3-4 unit) courses totaling no less than 10 units, above and beyond the requirements above, in one of the following areas. For details, see the Liberal Studies Handbook.

1. American Studies (history and literature)
2. Hispanic Studies (Spanish language, literature, and culture)
3. Literature in English
4. History/Social Science
5. Art
6. Music
7. Mathematics
8. Physical Science
9. Environmental/Life Science

Liberal Studies majors may appeal to create other concentrations, aside from those above. In any case, the proposed concentration should meet the goal of equipping prospective elementary teachers with content knowledge appropriate for the K-6 classroom.

X. Additional courses to fulfill General Education requirements (16 units)

PHI 006 Philosophical Perspectives (4)
RS 001 Introduction to Old Testament (4)
RS 010 Introduction to New Testament (4)
RS 020 Introduction to Christian Doctrine (4)

Transfer students *may* have reduced requirements for Religious Studies courses. See departmental advisor for details.

Students taking courses that do not appear on the list above must gain approval from the education department in order for the coursework to be validated as part of their major.

Sample Four-Year Course Sequence

Liberal Studies Program—Fast-track option
(3 years Liberal Studies Major
+ 1 year Credential Program)

First Year

Fall (25)
RS 020 (4)
ENG 002 (4)
HIS 007 (4)
PHS 011 (4)
PEA 032 (1)

Spring (26)
RS 010 (4)
Reading Imaginative Literature Requirement (4)
GE Language Requirement (4)
LS 012 (4)
PEA elective (1)

Second Year

Fall (26)
MU 184
ED 105
MA 160
Concentration Elective (4)
ED 160 (2)
PEA Elective (1)

Spring (27)
RS 001 (4)
HIS 009 (4)
MA 165 (2)
PHS 114 (4)
ED 172 (4)

Third Year

Fall (27)
ENG 104 (4)
ENG 106 (4)
PSY 115 (4)
PHI 006 (2)
Concentration elective (4)

Spring (28)
HIS 178 (4)
ED 100 (4)
ART 180 (4)
ED 109 (2)
Concentration elective (4)
KNS 155 (2)

Fourth Year (Credential Program)

Fall (28)
ED 110 (4)
ED 120 (4)
ED 150 (4)
ED 170 (4)
ED 130 (2)
KNS 156 (2)

Spring (29)
ED 190 (12)
ED 195 (3)

Notes on sample four-year schedule:

Students who choose not to complete the teacher preparation program as part of their four-year program, or who have not been admitted to the credential program, will replace the education courses in the fourth year, above, with elective units.

Four semesters shown in the sample four-year course sequence consist of schedules exceeding the regular limit of 18 units. Not all students are eligible to exceed this limit. Students may use Mayterm, approved summer coursework from other institutions, or approved AP coursework from high school to keep from having to enroll in more than 18 units in any given semester.

For students on the "fast-track" schedule, the baccalaureate degree would officially be awarded at the conclusion of the first semester of the fourth year. Students participate in graduation ceremonies the following May. A student in this program would have, at the conclusion of the four years, fifteen post-baccalaureate credit hours.

Mathematics

Kathleen Smith Chair of the Natural & Behavioral Sciences,
Professor of Mathematics R. Howell
Professor P. Hunter
Associate Professors A. Aboud, M. Van der Walt (chair)
Assistant Professor K. Hansen

Description of the Major. Mathematics is a language capable of clear and precise expression and an analytic tool that can solve complex problems. It is important because of its applications, but many mathematicians view the subject as a creative art in which human reason finds its purest expression. The attention to reasoning, abstraction, and creativity in mathematics makes the subject central to the liberal arts and sciences. Students who major in mathematics will increase their knowledge of mathematics, become more proficient communicators of mathematical ideas, enhance their creative capacities, and ponder the connections between faith and mathematics.

Distinctive Features. Students in the program join a community of learners made up of fellow students and faculty. Small class sizes allow students and faculty to work closely together, getting to know each other well. Students have opportunities to participate in summer research projects at Westmont and at other institutions. They help prepare and run an annual high school mathematics contest hosted by Westmont, and have opportunities to tutor in local schools. For more information on teacher preparation in mathematics, see the "Education Program" section of the catalog.

Career Choices. The bachelor's degree in mathematics prepares students well for a wide variety of careers and opportunities. Graduating majors have entered fields such as finance, accounting, teaching (high school and college), cryptanalysis, nursing, linguistics, and biomedical research. The major also provides the essential foundation for graduate work. Graduates have gone on to medical and law school and to graduate school in mathematics, statistics, economics, and public health.

Admissions Mathematics Requirement

The admissions math requirement is a prerequisite for all mathematics courses, unless otherwise noted. For further information, see the "Applying to Westmont" section of the catalog.

Requirements for a B.A. Major: 44 units

Lower-Division Courses: 24 units

MA 009 Calculus I (4)
MA 010 Calculus II (4)
MA/CS 015 Discrete Mathematics (4)

MA 019 Multivariable Calculus (4)
MA 020 Linear Algebra (4)

One of the following applied courses: (4)
CHM 005 General Chemistry I (4)
CS 010 Introduction to Computational Problem Solving (4)
PHY 021 General Physics I (4)

Foundation Courses: 8 units

MA 108 Real Analysis (4)
MA 110 Abstract Algebra (4)

Capstone Course: 4 units

MA 180 Senior Seminar (4)

Breadth: 8 units

Choose any 8 additional units chosen from 4-unit upper-division mathematics courses.

Requirements for a B.S. Major: 52 units

Lower-Division Courses: 28 units

CS 010 Introduction to Computational Problem Solving (4)
CS 030 Introduction to Object Oriented Data Structures (4)
MA 009 Calculus I (4)
MA 010 Calculus II (4)
MA/CS 015 Discrete Mathematics (4)
MA 019 Multivariable Calculus (4)
MA 020 Linear Algebra (4)

Foundation Courses: 8 units

MA 108 Real Analysis (4)
MA 110 Abstract Algebra (4)

In-Depth Study: 4 units

One of the following courses: (4)
MA 109 Advanced Real Analysis (4)
MA 111 Advanced Abstract Algebra (4)

Capstone Course: 4 units

MA 180 Senior Seminar (4)

Breadth: 8 units
(Choose any 8 additional units chosen from 4-unit upper-division mathematics courses.)

Requirements for a Mathematics Minor: 24 units

MA 009, Calculus I (4)
MA 010 Calculus II (4)
MA 020 Linear Algebra (4)

One of the following: (4)
MA / CS 015 Discrete Mathematics (4)
MA 19 Multivariable Calculus (4)

Choose any 8 additional units from 4-unit upper-division mathematics courses: (8)

Requirements for an Applied Mathematics Minor: 24 units

Required Courses: 16 units

CS 010 Introduction to Computational Problem Solving (4)
MA 009 Calculus I (4)
MA 010 Calculus II (4)
MA 040 Differential Equations with Linear Algebra (4)

Elective: 8 units

CS/BIO 106 Computational Biology (4)
CS/MA 116 Artificial Intelligence (4)
CS/MA 121 Introduction to Numerical Analysis (4)
CS/MA 124 Introduction to Cryptography (4)
MA 130 Probability and Statistics (4)
PHY 115 Mathematical Physics (4)

Preparation for Teaching Mathematics at the Secondary Level

Students wishing to teach mathematics at the high school or junior high level should complete the requirements for a B.A. or B.S. degree. In order to complete a fifth-year Credential Program at Westmont, students should also complete four or more of the following prior to applying to the program:

ED 101 Explorations in Teaching: Secondary (4)
ED 105 Perspectives on Cultural Diversity and Education (4)
ED 130 Special Education for the Classroom Teacher (2)
ED 161 Technology for the Classroom Teacher: Secondary (2)
ENG 106 Language Acquisition (4)
KNS 156 Health Education for the Classroom Teacher (2)

In many cases, it is possible to complete requirements for the mathematics major and the Westmont Credential Program in four years. Such a "fast-track" program requires early planning. All students wishing to explore secondary teaching are strongly encouraged to consult with faculty advisors in the Department of Education as early in their undergraduate program as possible, in addition to their major advisor.

Lower-Division Course Descriptions

MA 002 The Mathematics of Music (4) An exploration of the mathematical principles of music. Topics include rhythm and music theory, the science of sound, tuning and temperament, musical group theory, change ringing, twelve-tone music and mathematical modern music.

MA 003 Statistics for Public Health (4) Statistical methods are critical in public health. Descriptive statistics can help a worker identify the existence and magnitude of a public health problem. Certain types of graphical presentations can aid in identifying the source of a problem. Inferential statistics are used to determine whether a proposed solution is actually having an effect or whether the observed changes could be the result of random variation. The purpose of this course is to explore how to construct and interpret descriptive statistics using such tools as plots, measures of central tendency (what is typical), measure of variability, and correlation. The course will conclude with an introduction to the basic inferential methods. Statistics for Public Health is designed to be offered as a modular course associated with an off-campus program. It is not part of the cycle of mathematics courses and does not carry credit for the mathematics major.

MA 004 Mathematics in Context (4) Prerequisite: Admissions mathematics requirement. A survey of some of the great ideas and questions in mathematics in the context of their historical/cultural formulation. Emphasis on conceptual rather than computational skills.

MA 005 Introduction to Statistics (4) Prerequisite: Admissions mathematics requirement. A truly liberally educated person must have a basic knowledge of statistics, as its use permeates society. This course provides that grounding. Topics include exploratory data analysis, correlation, hypothesis testing, and regression. Graphs that model certain phenomena such as the normal, *t*, and chi-square distributions are set in an applied context. Non-parametric tests, such as the goodness-of-fit and Mann-Whitney, are also explored. The course involves extensive use of statistical software.

MA 006 Statistical Modeling (4) Prerequisite: MA 005, POL 040, or SOC 109. This course takes a case study approach to the fitting and assessment of statistical models with application to real data. Specific topics include simple and multiple linear regression; one-way and two-way analysis of variance; logistic and multiple logistic regression. The approach focuses on problem-solving tools, interpretation, mathematical models underlying analysis methods, and written statistical reports.

MA 008 Functions and Models (4) Prerequisite: College Algebra or equivalent. Mathematical models enable us to understand natural and social phenomena in systematic ways so that we can make predictions about those phenomena. This course prepares students to use powerful tools of mathematics to model real-world problems in biology, chemistry, economics, and physics. In particular, it focuses on linear, polynomial, rational, logarithmic, exponential, and trigonometric functions. As you learn how to use these functions, you will develop the algebraic knowledge and skills necessary to be successful in calculus.

MA 009, 010 Calculus I, II (4,4) Prerequisite for MA 009: MA 008 or Precalculus. Prerequisite for MA 010: MA 009 or equivalent. Calculus is the mathematical language that describes the natural world. The tools of this language are functions, graphs, limits, derivatives, integrals, sequences, and series. Students will solve some classic problems in mathematics and explore applications in science, technology, and engineering.

MA 010H Honors Calculus II (4) Prerequisite: MA 009 or equivalent and instructor approval. Functions, graphs, limits, differentiation, integration, sequences, series. Emphasis on theoretical aspects of the calculus, with extensive computer use to illustrate patterns and perform complex computations.

MA/CS 015 Discrete Mathematics (4) Prerequisite: Admissions Math Requirement. If calculus is analog, then discrete mathematics is digital; it is the study of things that you count, rather than things that you measure. Topics include logic (organizing thought), set theory (organizing objects), graph theory (representing relationships), combinatorics (clever ways of counting), and algorithms (analyzing processes). Students will learn how mathematicians prove theorems and how computer scientists solve problems.

MA 019 Multivariable Calculus (4) Prerequisite: MA 010. Elementary calculus studies quantities that change, but that depend on only one variable. Real-world applications, however, usually require building models that require several inputs. This course studies quantities that have been liberated from that "single-input" constraint, and covers the standard topics of "multivariable" calculus: vector functions, partial derivatives, gradients, multiple integrals, line integrals, Green's Theorem, Stokes' Theorem, and the Divergence Theorem.

MA 020 Linear Algebra (4) Prerequisite: MA 010, MA 015 or CS 015. Many physical and mathematical systems have the structure of a vector space. This course explores these spaces and their transformations using matrices. Important concepts include independence, bases, eigenvectors, orthogonality, and diagonalization. These ideas form an important pathway to higher mathematics, and also have applications to differential equations and optimization problems.

MA 040 Differential Equations with Linear Algebra (4) Prerequisite: MA 010. First-order and second-order ordinary differential equations with applications in physics and engineering. Laplace transform method and power series solutions. Graphical and numerical techniques. Linear systems of equations and Gauss-Jordan elimination. Vectors and matrices; determinants and inverses. Eigenvalues and eigenvectors; diagonalization of matrices. Systems of linear differential equations. Surveys of partial differential equation in the sciences.

Upper-Division Course Descriptions

MA 108 Real Analysis (4) Prerequisite: MA 020. Is calculus built on a rock-solid foundation, or are its results suspect because there is no firm basis for believing them? This course takes a careful look at the great results of calculus and proves them

rigorously using the current standards of mathematics. It explores exciting generalization of some calculus ideas, such as the topology of metric spaces, and investigates functions with unexpected properties, such as being continuous everywhere, but differentiable nowhere.

MA 109 Advanced Real Analysis (4) Prerequisites: MA 108 and instructor approval. When Fourier solved the differential equation modeling heat diffusion, much of the mathematical community rejected his work. They were at least partially correct in doing so since Riemann's definition of the integral is inadequate to support the calculations Fourier used. This course traces the development of alternate formulations of the integration which provide a solid platform for Fourier's techniques.

MA 110 Abstract Algebra (4) Prerequisite: MA 020. Abstract algebraic patterns pervade modern mathematics. Given simple definitions of groups, rings, and fields, this course develops the intricate theory of these objects, including permutation groups, subgroups, quotient groups and rings, isomorphisms, and extension fields.

MA 111 Advanced Abstract Algebra (4) Prerequisites: MA 110 and instructor approval. In 1832, when Évariste Galois was 20 years old, he was shot and killed in a duel. The night before, he wrote a letter to a colleague detailing his work on some of the most profound mathematical questions of the time. This course investigates the work of Galois, combining advanced group theory and field theory to understand the nature of polynomial equations. (Additional topics may be included at the discretion of the instructor.)

MA/CS 121 Introduction to Numerical Analysis (4) Prerequisite: MA 010 or MA 010H, Recommended: CS 010. Numerical methods in the solution of equations; polynomial approximations; integration, and the solution of differential equations. Use of computer where applicable.

MA 123 Number Theory (4) Prerequisite: MA 019 or MA 015 or CS 015 or MA 020. Prime factorization and the distribution of primes. Congruences and residue class arithmetic; quadratic residues and Gauss reciprocity. Primality testing and pseudoprimes with applications to cryptography. Arithmetic functions. Theorems on sums of squares and other results inspired by Fermat.

MA/CS 124 Introduction to Cryptography (4) Prerequisites: MA 015 or CS 015 or MA 020. Modern applications of computing demand that the storage and transmission of data be secure and reliable. Cryptography is the study of techniques for protecting data from adversaries, while coding theory deals with representing data robustly in digital form. This course provides an introduction to these related fields. Topics include basic number theory and modern algebra, classical and modern cryptosystems, discrete logarithms, hash functions, digital signatures, elliptic curves, and error-correcting codes.

MA 130 Probability and Statistics (4) Prerequisite: MA 010. The use of probability and statistics is ubiquitous in our society, but most people do not realize that these tools rest on deep mathematical formulations. You will learn those concepts in this course. Topics covered include probability spaces, random variables, conditional probability, and types of distributions (e.g., normal, binomial, Poisson). Applications include the Central Limit Theorem. hypothesis testing, and point estimation.

MA/CS 135 Theory of Computation (4) Prerequisite: CS 015 or MA 015. In his early thirties, Alan Turing cracked the Enigma code while establishing the theoretical

foundation for what is computable, and what is not. He died tragically at the age of 41. This course explores what it means to compute, what features are necessary for a machine to compute, and the respective limits on what different machines can compute.

MA 136 Geometry (4) Prerequisite: MA 020. For 2000 years, mathematicians knew of only one system of geometry. In the nineteenth century, creative innovations led to strange new geometric worlds. This course revisits the familiar Euclidean geometry from an advanced axiomatic standpoint and goes beyond to study hyperbolic geometry and other topics such as projective geometry and transformations.

MA 140 Complex Analysis (4) Prerequisite: MA 019. A study of the calculus of complex numbers, which are sometimes dubbed "imaginary" numbers because they involve $\sqrt{-1}$. You will learn, however, that there is nothing imaginary about them. Indeed, complex numbers play a fundamental role in modern physics and (surprisingly) make some calculations with real variables extremely simple. Topics include analytic and harmonic functions, integrals, series, residues and poles, conformal maps, and the classical theorems of complex analysis. In-course honors and research opportunities are available per discussion with the instructor.

MA 150 Topics (4) Prerequisite: MA 019 or MA 020. Course content varies from year to year, depending on interests of faculty and students. Possible topics include: coding theory, mathematical biology, geometric modeling, statistical modeling, philosophy of mathematics.

MA 155 History of Mathematics (4) Prerequisite: MA 019 or MA 020. We strive in this course to gain an understanding of how mathematics has developed since ancient times. We will study historical texts, seeking to place them in their broader scientific, intellectual, and social contexts. Our aim will be to consider the work of past mathematicians on its own terms, asking, "What did these mathematicians think they were doing? What were their goals, interests, and methods? What did they think they had accomplished?" Topics included: mathematics in ancient Greece, mathematics in China and India during the medieval period, the mathematics of Islam, the evolution of ideas in such areas as geometry, number theory, calculus, algebra, and set theory. Includes exploration of historiographical questions and of questions about the nature of mathematical discovery and proof. Emphasizes use of primary sources.

MA 160, 165 Fundamentals of Mathematics I, II (4,2) Not for credit toward mathematics major. This course examines familiar mathematics from a more sophisticated perspective. It focuses on the abstract structure of mathematics, emphasizing problem solving, communication, and reasoning. Put another way, we will be exploring and communicating the ideas and reasons behind the mathematical ideas. Topics include: logic, sets, numbers, natural numbers, numeration systems, algorithms for arithmetic operations, geometry, and probability. MA 160 is a prerequisite for MA 165.

MA 180 Senior Seminar (4) Prerequisite: Senior standing or instructor consent. At its heart, mathematics is problem solving. In most undergraduate courses, the problems assigned are intimately connected with the current topic of discussion in the class and in the text. This practice gives an unrealistic picture of the way the mathematics generally works. In most non-classroom situations, problems and questions are unstructured and come without external clues as to what approach will be useful or how difficult the problem is likely to be. In this capstone course, you will be

introduced to "context free" problems from sources such as The *American Mathematical Monthly*, *Mathematics Magazine*, and *Math Horizons*, and you will learn how to devise your own approach to finding a solution. You will have the opportunity to submit your solutions to the mathematics journals in which the problems appeared, and present these solutions to an invited audience of faculty and peers. Through readings, reflections, and in-class discussions, students will also explore the role of mathematics within its historical, philosophical, and societal context. As a culmination of this exploration, students will produce an essay reflecting on the discipline of mathematics, and how pursuing mathematics fits within a Christian calling and vocation.

MA 190SS, 191SS Mathematics Seminar for Service Learning Internship (1,0) Prerequisite: Consent of instructor. Students will spend one (MA-191SS) or three hours (MA-190SS) per week either (1) tutoring elementary, junior high, or high school students, primarily in mathematics or (2) running after-school enrichment programs in mathematics or computer science in local elementary, junior high, or high schools. Students will also attend three 1-hour course meetings, and write a reflective paper on the experience. Does not satisfy the Breadth requirement for the mathematics major. (By arrangement)

MA 198 Research (1-4) In their research, mathematicians ask and answer new questions and push the frontiers of knowledge. This experience can be both terrifying and exhilarating. Research under the direction of a faculty mentor gives you the opportunity to develop new mathematical ideas, pose mathematical questions, and seek their answers.

MA 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Music

Adams Chair of Music and Worship, Professor S. Reichwald
Professor S. Butler
Associate Professors H.S. Kim, R. Lin (chair)
Assistant Professor D. Gee

***M*ission Statement.** The Music Department equips students for the serious study, composition and performance of great music within the scope of the liberal arts tradition and the context of the Christian faith and worship. The primary objective of the Music Department is to develop skilled musicians with Christian insight into their art and craft at an advanced level. The Music Department works toward that objective in many ways unique to the arts, and always as part of and in harmony with the total College community.

***D*escription of the Major**. The music major is designed to develop musical skills, knowledge, and attitudes. Professors place special emphasis on encouraging and developing creativity. Students majoring in music may complete one of four tracks on the Bachelor of Arts in Music Degree: Liberal Arts, Performance, Composition or Worship Leadership, one of three programs on the Bachelor of Music in Performance Degree: Orchestral Instruments, Piano or Voice, or the Bachelor of Music (Pre-Teaching Credential) degree.

***D*istinctive Features**. The music major at Westmont is distinctive in the great amount of personal attention given students and the emphasis on drawing out and developing creativity.

***C*areer Choices**. Traditionally, people have tended to view a music major as useful for persons who wish to perform or teach. However, many students are finding rewarding careers in music outside of performing and teaching. Exciting opportunities exist in church music, music publishing, music management, music business, recording, broadcasting and other areas. The music major at Westmont is designed to provide a solid foundation in music and yet offer enough flexibility for a student to earn a legitimate liberal arts degree and prepare for a variety of careers.

For students seeking a career in classroom teaching, the Music Department offers the Bachelor of Music (Pre-Teaching Credential) degree and the optional fifth-year post baccalaureate teacher certification program in conjunction with the Department of Education. Westmont College is accredited by the National Association of Schools of Music.

B.A. Degree Major Requirements:

Liberal Arts Track: 48 units

Required Lower-Division Courses: 10 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
MU 015 Conducting (2)
MU 093 Half Recital Project (0)

Required Upper-Division Courses: 26 units

ART 131 Theory and Criticism in the Arts (4)
MU 110 Principles of Music III (4)
MU 112 Principles of Music IV (4)
MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)
Upper-Division MU Electives (4)
Upper-Division MU or MUA Elective (2)

Required Applied Music Courses: 12 units

Private Instruction: A minimum of 6 semesters in one area.
- MUA 030, 130 Private Composition I, II (1, 2)
- MUA 040, 140 Private Organ I, II (1, 2)
- MUA 050, 150 Private Piano I, II (1, 2)
- MUA 060, 160 Private Guitar I, II (1, 2)
- MUA 070, 170 Private Voice I, II (1, 2)
- MUA 080, 180 Private Orchestral Instrument I, II (1, 2)

Ensembles: A minimum of 6 units in a major ensemble.
- MUA 071, 171 College Choir I, II (1)
- MUA 072, 172 Chamber Singers I, II (1)
- MUA 083, 183 Orchestra I, II (1)
- Up to 2 units total of the following may count toward the major ensemble requirement:
  - MUA 082, 182 Jazz Ensemble I, II (1)

Orchestral Instrument Performance Track: 58 units

Required Lower-Division Courses: 10 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
MU 015 Conducting (2)
MU 093 Half Recital Project (0)

Required Upper-Division Courses: 26 units

ART 131 Theory and Criticism in the Arts (4)
MU 110 Principles of Music III (4)
MU 112 Principles of Music IV (4)

MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)
MU 193 Full Recital Project (2)
Upper-Division MU Electives (4)

Required Applied Music Courses: 22 units

12 units of MUA 080, 180 Private Orchestral Instrument I, II (1, 2)
7 units of MUA 083, 183 Orchestra I, II (1)
Up to 2 units of MUA 084, 184 Chamber Music I, II may count toward the major ensemble requirement
1 unit of Pedagogy relevant to your instrument
MU 165 Brass Instrument Techniques (1)
MU 166 Woodwind Instrument Techniques (1)
MU 167 String Instrument Techniques (1)
MU 168 Percussion Instrument Techniques (1)

Voice Performance Track: 58 units

Required Lower-Division Courses: 10 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
MU 015 Conducting (2)
MU 093 Half Recital Project (0)

Required Upper-Division Courses: 26 units

ART 131 Theory and Criticism in the Arts (4)
MU 110 Principles of Music III (4)
MU 112 Principles of Music IV (4)
MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)
MU 193 Full Recital Project (2)
Upper-Division MU Electives (4)

Required Applied Music Courses: 22 units

10 units of MUA 070, 170 Private Voice I, II (1, 2)
7 units of assigned major choral ensemble MUA 071, 171 College Choir I, II (1)
MU 175 Vocal Techniques (2)
1 unit of MUA 077, 177 Musical Drama Workshop I, II (1)
2 units of MUA 072, 172 Chamber Singers I, II (1)
Theatre Arts Production can be substituted for Chamber Singers with department approval

Piano Performance Track: 58 units

Required Lower-Division Courses: 10 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)

MU 015 Conducting (2)
MU 093 Half Recital Project (0)

Required Upper-Division Courses: 26 units

ART 131 Theory and Criticism in the Arts (4)
MU 110 Principles of Music III (4)
MU 112 Principles of Music IV (4)
MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)
MU 193 Full Recital Project (2)
Upper-Division MU Electives (4)

Required Applied Music Courses: 22 units

12 units of MUA 050, 150 Private Piano I, II (1, 2)
7 units of major ensemble, from the following courses
MUA 071, 171 College Choir (1)
MUA 072, 172 Chamber Singers I, II (1)
MUA 083, 183 Orchestra (1)
MU 131 Piano Literature I (1)
MU 132 Piano Literature II (1)
MU 134 Piano Pedagogy (1)

Music Composition Track: 58 units

Required Lower-Division Courses: 10 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
MU 015 Conducting (2)

Required Upper-Division Courses: 26 units

ART 131 Theory and Criticism in the Arts (4)
MU 110 Principles of Music III (4)
MU 112 Principles of Music IV (4)
MU 117 Orchestration and Arranging (4)
MU 118 Form and Analysis (2)
MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)

Required Applied Music Courses: 22 units

Private Instruction: 16 units with a minimum of 12 of those units in composition.
MUA 030, 130 Private Composition I, II (1, 2)
MUA 040, 140 Private Organ I, II (1, 2)
MUA 050, 150 Private Piano I, II (1, 2)
MUA 060, 160 Private Guitar I, II (1, 2)
MUA 070, 170 Private Voice I, II (1, 2)
MUA 080, 180 Private Orchestral Instrument I, II (1, 2)

Ensembles: A minimum of 6 units in a major ensemble.
MUA 071, 171 College Choir I, II (1)
MUA 072, 172 Chamber Singers I, II (1)
MUA 083, 183 Orchestra I, II (1)
Up to 2 units total of the following may count toward the major ensemble requirement:
MUA 082, 182 Jazz Ensemble I, II (1)

Worship Leadership Track: 50 units

Required Core Courses: 18 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
MU 015 Conducting (2)
MU 016 Contemporary Writing and Arranging (4)
MU 030 Sound Recording and Production (4)

Required Courses in the major: 14 units

MU 093 Half Recital Project (0)
MU 121 History of Western Music II (4)
MU 122 Music in the Worshipping Church (4)
MU 190 Internship (2)
One of the following: (4)
MU 022 History of Popular Music (4)
MU 120 History of Western Music I (4)
MU 123 Survey of World Music (4)

Required Applied Music Courses: 10 units

Private Instruction:
A minimum of 2 semesters of MUA 070, 170 Private Voice I, II (1-2)
A minimum of 4 semesters in one area.
MUA 050, 150 Private Piano I, II (1, 2)
MUA 060, 160 Private Guitar I, II (1, 2)
Ensembles: A minimum of 4 units in a major ensemble.
MUA 071, 171 College Choir I, II (1)
MUA 072 Chamber Singers (1)
MUA 083, 183 Orchestra I, II (1)
Up to 2 units total of the following may count toward the major ensemble requirement:
MUA 082, 182 Jazz Ensemble I, II (1)
MUA 085, 185 Chamber Orchestra I, II (1)

Upper Division Electives from Religious Studies or Music: 8 units

Suggested courses:
MU 110 Principles of Music III (4)

MU 112 Principles of Music IV (4)
MU 115 Advanced Conducting (2)
MU 118 Form and Analysis (2)
RS 113 The Church in the New Testament (4)
RS 114 The World of the New Testament (4)
RS 119 Early and Medieval Christianity (4)
RS 120 Reformation and Modern Christianity (4)
RS 127 Theological Formation (4)
RS 133 Art, Theology, and Worship (4)
RS 151 History of World Christianity (4)

Requirements for a Minor: 24 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
Four units of the following:
MU 020 Survey of Music (4)
MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)
Private Lessons: Four semesters of the following areas:
MUA 030, 130 Private Composition I, II (1, 2)
MUA 040, 140 Private Organ I, II (1, 2)
MUA 050, 150 Private Piano I, II (1, 2)
MUA 060, 160 Private Guitar I, II (1, 2)
MUA 070, 170 Private Voice I, II (1, 2)
MUA 080, 180 Private Orchestral Instrument I, II (1, 2)
Ensembles: Four units in a major ensemble:
MUA 071, 171 College Choir I, II (1)
MUA 072, 172 Chamber Singers I, II (1)
MUA 082, 182 Jazz Ensemble I, II (1) (up to 2 units may count toward major ensemble requirement.)
MUA 083, 183 Orchestra I, II (1)
MU Electives: (4)

Bachelor of Music (Pre-Teaching Credential)

A total of 126 units (including general education courses) are required for this degree

Required Lower Division Courses: 10 units
MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
MU 015 Conducting (2)
MU 093 Half Recital Project (0)
Required Upper Division Courses: 50 units
ED 101 Explorations in Teaching - Secondary (4)

ED 161 Technology for the Classroom Teacher: Secondary (2)
ENG 106 Language Acquisition (4)
MU 110 Principles of Music III (4)
MU 112 Principles of Music IV (4)
MU 115 Advanced Conducting (2)
MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)
MU 123 Survey of World Music (4)
MU Pedagogy Courses (6)
MU 165 Brass Instrument Techniques (1)
MU 166 Woodwind Instrument Techniques (1)
MU 167 String Instrument Techniques (1)
MU 168 Percussion Instrument Techniques (1)
MU 175 Vocal Techniques (2)
MU 184 Music for Children (4)
MU 185 Music in the Secondary Schools (4)
PHY 007 The Physics of Music (4) or MA 002 The Mathematics of Music (4)

Required Applied Music Courses 18 units
Private Instruction: A minimum of 7 semesters in one area.
MUA 030, 130 Private Composition I, II (1, 2)
MUA 040, 140 Private Organ I, II (1, 2)
MUA 050, 150 Private Piano I, II (1, 2)
MUA 060, 160 Private Guitar I, II (1, 2)
MUA 070, 170 Private Voice I, II (1, 2)
MUA 080, 180 Private Orchestral Instrument I, II (1, 2)
And at least 2 units in voice for instrumentalists or an instrument for singers
Ensembles: A minimum of 8 units in a major ensemble.
MUA 071, 171 College Choir I, II (1)
MUA 072, 172 Chamber Singers I, II (1)
MUA 083, 183 Orchestra I, II (1)
Up to 2 units total of the following may count toward the major ensemble requirement:
MUA 082, 182 Jazz Ensemble I, II (1)

5th Year Credential Program: 32 Units
A post-baccalaureate credential program is offered that includes the following 32 units of courses offered through the Education Department **t**o qualify for the California State credential certification exams:

Required courses:
ED 105 Perspectives on Cultural Diversity and Education (4)
ED 111 Educational Psychology – Secondary (4)
ED 130 Special Education for the Classroom Teacher (2)
ED 151 Curriculum, Classroom Management, and Instruction – Secondary (2)
ED 171 Content Area Literacy – Secondary (4)
ED 191 Student Teaching Secondary (12)

ED 196 Student Teaching Seminar Secondary (3)
KNS 156 Health Education for the Classroom Teacher (2)

Bachelor of Music Major Requirements

A total of 126 units (including general education courses) are required for this degree

Vocal Performance Track: 79 units

Required Lower Division Courses: 14 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
MU 015 Conducting (2)
MU 093 Half Recital Project (0)
PHY 007 Physics of Music (4) or MA 002 The Mathematics of Music (4)

Required Upper-Division Courses: 27 units

ART 131 Theory and Criticism in the Arts (4)
MU 110 Principles of Music III (4)
MU 112 Principles of Music IV (4)
MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)
MU 123 Survey of World Music (4)
MU 193 Half Recital Project (2)

Private Lessons: 15 units

MUA 070,170 Voice Lessons (1, 2)

Major Choral Ensembles: 7 units

MUA 071, 171 College Choir I, II (1)
MUA 072, 172 Chamber Singers I, II (1)

Additional Courses: 17 units

IS 052 Fundamentals of Language Diction (2)
MU 124 Vocal Literature (1)
MUA 072, 172 Chamber Singers I, II (2)
MUA 077, 177 Musical Drama Workshop (2)
MUA 082, 182 Jazz Ensemble (1)
MUA 175 Vocal Techniques (2)
TA 050, 150 Rehearsal and Performance I, II (1-2)
TA 051 Acting the Song (4) Or TA 010 Acting I: Foundations (4)
Additional MUA or TA Electives (2)

Piano Track: 79 units

Required Lower Division Courses: 14 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
MU 015 Conducting (2)
MU 093 Half Recital Project (0)
PHY 007 The Physics of Music (4) or MA 002 The Mathematics of Music (4)

Required Upper-Division Courses: 27 units

ART 131 Theory and Criticism in the Arts (4)
MU 110 Principles of Music III (4)
MU 112 Principles of Music IV (4)
MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)
MU 123 Survey of World Music (4)
MU 193 Full Recital Project (2)

Private Lessons: 15 units

MUA 050,150 Piano Lessons (1, 2)

Major Ensembles: 7 units

MUA 071, 171 College Choir I, II (1)
MUA 072, 172 Chamber Singers I, II (1)
MUA 083, 183 Orchestra I, II (1)
Up to 2 units total of the following may count toward the major ensemble requirement:
MUA 082, 182 Jazz Ensemble I, II (1)

Theatre Production: 3 units

TA 050, 150 Rehearsal and Performance I, II (1-2)

Chamber Music: 7 units

Any combination of the following:
MU 133 Collaborative Piano (1)
MUA 081, 181 Wind Chamber Music I, II (1)
MUA 082, 182 Jazz Ensemble I, II (1)
MUA 084, 184 String Chamber Music I, II (1)

Additional Courses: 7 units

MU 131, 132 Piano Literature I, II (1, 1)
MU 133 Collaborative Piano (1)
MU 134 Piano Pedagogy (1)

MUA 082, 182 Jazz Ensemble (1)
Additional MUA or TA Electives (2)

Orchestral Instrument Track: 79 units

Required Lower Division Courses: 14 units

MU 010 Principles of Music I (4)
MU 012 Principles of Music II (4)
MU 015 Conducting (2)
PHY 007 The Physics of Music (4) or MA 002 The Mathematics of Music (4)
MU 093 Half Recital Project (0)

Required Upper-Division Courses: 26 units

ART 131 Theory and Criticism in the Arts (4)
MU 110 Principles of Music III (4)
MU 112 Principles of Music IV (4)
MU 120 History of Western Music I (4)
MU 121 History of Western Music II (4)
MU 123 Survey of World Music (4)
MU 193 Full Recital Project (2)

Private Lessons: 15 units

MUA 080,180 Private Orchestral Instrument I, II (1, 2)

Major Ensemble: 7 units

MUA 083, 183 Orchestra I, II (1)

Performance and Chamber Music Electives: 6 units

MUA 081, 181 Wind Chamber Music I, II (1)
MUA 082, 182 Jazz Ensemble I, II (1)
MUA 084, 184 String Chamber Music I, II (1)

Theatre Production: 3 units

TA 050, 150 Rehearsal and Performance I, II (1-2)

Pedagogy: 1 unit

For specific instrument
MUA-165 Brass Instrument Techniques (1)
MUA 166 Woodwind Instrument Techniques (1)
MUA 167 String Instrument Techniques (1)
MUA 168 Percussion Instrument Techniques (1)

Additional Courses: 7 units

MUA 065 Instrument Studio (4)
MUA 082, 182 Jazz Ensemble I, II (1)
Additional MUA Electives (2)

Notes:

1. All incoming MU 010 students will be required to take a basic music placement test in the second week of class.
2. All music majors will be required to pass the piano proficiency exam. Students who do not pass the exam by the time they finish MU 012 will be advised to take MUA 005 and repeat the course until the exam is passed. Alternatively, passing 4 semesters of MUA 005 will also satisfy the piano proficiency requirement.
3. All music majors must be approved for study beyond the 4th semester in their chosen applied area (a minimum of 6 semesters in one applied area is required in each degree program). Approval for study beyond the 4th semester will be conducted via the Upper-Division Exam, to take place during the regular semester jury exams. Approval will be based on successful achievement in the applied area, and a review of progress toward the degree by the music faculty. Upon successful review, a note of approval for continued study will be placed in each major's student file.

Lower-Division Course Descriptions

MU 001 Fundamentals for Musicians (2) A course designed to acquaint students with the basics of music reading, writing, and performing. (Not applicable to major or minor requirements but may be required of music theory students with deficiencies.)

MU 010 Principles of Music I (4) An entry level study of music theory, this course introduces the student to the elements of harmonic materials and analysis. All four levels of the Principles of Music sequence incorporate the development of sight singing skills, rhythmic perception, aural proficiency, and the integration of computers with the conventional study of music.

MU 012 Principles of Music II (4) Prerequisite: MU 010. A continuation of MU 010, the theoretical study in MU 012 introduces the student to the elements of more advanced harmonic writing and analysis skills using inversion principles, cadential formulae, phrases, periods, and non-chord tones.

MU 015 Conducting (2) Prerequisite: MU 012. An introduction to basic conducting skills.

MU 016 Contemporary Writing and Arranging (4) Prerequisites: MU 010 and MU 012. An introduction to the principles and techniques of songwriting and arranging for modern band.

MU 020 Survey of Western Music (4) A historical survey of the music of European culture.

MU 022 Survey of American Popular Music (4) A historical survey of the music of American popular culture.

MU 030 Sound Recording and Music Production (4) Sound Recording and Music Production introduces students to music production technologies: digital audio workstations (DAWs), the standard equipment of a recording studio, and the process for making recordings and post-production.

MU 093 Half Recital Project (0) A course for Performance Track and Bachelor of Music (Pre-Teaching Credential) majors to perform a half recital assigned by faculty with another student. The length of the joint recital should be approximately 75 minutes.

Upper-Division Course Descriptions

MU 110 Principles of Music III (4) Prerequisite: MU 012. A continuation of MU 012, the theoretical study in MU 110 introduces the student to the elements of more advanced harmonic writing and analysis skills incorporating seventh chords, secondary functions, modulation, and binary-ternary formal relationships. Proficiency in music notation software is taught and assessed.

MU 112 Principles of Music IV (4) Prerequisite: MU 110. A continuation of MU 110, the theoretical study in MU 112 introduces the student to mode mixture, the Neapolitan chord, the augmented sixth chords, as well as a comprehensive study of 20th - 21st century techniques. Proficiency in music notation software is taught and assessed.

MU 115 Advanced Conducting (2) Prerequisite: MU 015. Advanced conducting techniques. Students may choose to emphasize choral or instrumental conducting.

MU 117 Orchestration and Arranging (4) Prerequisite: MU 012. The study of orchestration will introduce the student to the complexities of writing, arranging, and transcribing music for the symphony orchestra as well as the orchestration and arranging of church music. Each family of instruments will be examined and exercises of transcription, transposition, and score-reading will offer a solid foundation in understanding orchestral concepts. Alongside the traditional study of orchestration will be an intentional focus on the application of applied music ministry by charting music for contemporary band, and arranging hymns for a variety of ensembles.

MU 118 Form and Analysis (2) Prerequisite: MU 112. Examination of musical form and function by comprehensive analysis of major works.

MU 120 History of Western Music I (4) Prerequisite: MU 012. A study of the development of music through the great eras of history, from Antiquity through the Baroque. Concentrates primarily on Western music in the context of a global arena, making comparisons to non-Western music where appropriate.

MU 121 History of Western Music II (4) Prerequisite: MU 012. A study of the development of music through the great eras of history, from the Classic through the present. Concentrates primarily on Western music in the context of a global arena, making comparisons to non-Western music where appropriate.

MU 122 Music in the Worshipping Church (4) A practical and philosophical study of music in the worship of the Christian Church, including a survey of the historical development of worship and worship music and an assessment of current styles.

MU 123 Survey of World Music (4) A survey of the music of the world's cultures. An introduction to the discipline of ethnomusicology.

MU 124 Survey of Vocal Literature (1) This course is designed to provide students a thorough and practical knowledge of Western art song, concert, and operatic repertoire. Students will study solo vocal literature from approximately 1550 to the present, covering Italian, German, French, English, Spanish, and American song, as well as opera and oratorio literature. Students will develop their interpretive understanding of each genre through discussion, analysis, listening assignments, concert attendance, recital planning, and performances. Furthermore, a working knowledge of appropriate vocal repertoire for students of all levels and various voice type will be explored.

MU 131 Piano Literature I (1) This course offers students an overview of solo keyboard repertoire from the Renaissance to early Romantic era. Prior keyboard musical experience is helpful, but this course is also open to general college students who seek to advance their understanding of solo keyboard music.

MU 132 Piano Literature II (1) This course offers students an overview of solo keyboard repertoire from the early Romantic era to very recent compositions. Prior keyboard musical experience is helpful, but this course is also open to general college students who seek to advance their understanding of solo keyboard music.

MU 133 Collaborative Piano (1) This course equips the pianist with techniques and knowledge necessary to become a communicative collaborative artist. Repertoire from opera, song literature, orchestral reduction, and instrumental chamber music will be studied and prepared for performance.

MU 184 Music for Children (4) A course designed to provide ideas and tools for instruction in music by elementary school teachers.

MU 185 Music in the Secondary Schools (4) Study will focus on the preparation for teaching instrumental and choral music at the middle and high school levels of secondary schools. Topics will include the following: basic philosophical considerations and aesthetics of music education, teaching musical notation, music education history and development, objectives, curriculum, evaluation, motivation, administration, recruiting and scheduling, teaching class lessons, tone quality, intonation and blend, bowing and articulation, phrasing and interpretation, acquiring performance technique, rehearsal techniques, assessment, and ensemble rehearsal procedures. Observations of secondary music ensembles and classes will also be incorporated as field experiences. Some opportunities for internship experiences may also be available during the semester.

MU 190 Internship (1-4) Practical field experience in music administration, business, music production, church music, and related areas.

MU 193 Full Recital Project (2)

MU 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Applied Music Courses

Class Lessons (1)

Not applicable to major requirements, but may be required of music majors with deficiencies. May be repeated up to four semesters.

MUA 005 Preparatory Piano (1)
MUA 006 Class Guitar (1)
MUA 007 Class Voice (2)

Private Lessons (1-2)

Private lessons may be taken for 2 units of credit per semester only by completing a two semester prerequisite at the 1-unit level.

MUA 030/130 Private Composition (1/2)
MUA 040/140 Private Organ (1/2)
MUA 050/150 Private Piano (1/2)
MUA 060/160 Private Guitar (1/2)
MUA 065 Instrument Studio (1) This class focuses on the performance aspect. All students are required to perform at least 2 times per semester and comment of each other's performances using constructive criticism.
MUA 070/170 Private Voice (1/2)
MUA 080/180 Private Orchestral Instrument (1/2)
MUA 135 Advanced Individual Study in Conducting (1) This private lesson includes score preparation, rehearsal organization, and performance with instrumental and/or choral ensembles.

Ensembles (1)

By audition. May be repeated for credit.

MUA 071/171 College Choir (1)
MUA 072/172 Chamber Singers (1)
MUA 077/177 Musical Drama Workshop (1)
MUA 081/181 Wind Ensemble (1)
MUA 082/182 Jazz Ensemble (1)
MUA 083/183 Orchestra (1)
MUA 084/184 Chamber Instrumental Ensemble (1)

Pedagogy

MUA 065 Instrument Studio (1) This class focuses on the performance aspect of the degree and it is an integral part of learning and playing the instrument.

MUA 077 Musical Drama Workshop (1) The study and performance of scenes from the opera and musical theater repertoire.

MU 134 Piano Pedagogy (1) This course offers students an overview of teaching piano. It explores the history of the instrument and its notable performers, as well as delving into methodology, technique, interpretation and repertoire.

MU 165 Brass Instrument Techniques (1) This course offers students an overview of teaching brass instruments. It explores the history of the instruments and its notable performers, as well as delving into methodology, technique, interpretation, and repertoire.

MU 166 Woodwind Instrument Techniques (1) This course offers students an overview of teaching woodwind instruments. It explores the history of the instruments and its notable performers, as well as delving into methodology, technique, interpretation, and repertoire.

MU 167 String Instrument Techniques (1) This course offers students an overview of teaching stringed instruments. It explores the history of the instruments and its notable performers, as well as delving into methodology, technique, interpretation, and repertoire.

MU 168 Percussion Instrument Techniques (1) This course offers students an overview of teaching percussion instruments. It explores the history of the instruments and its notable performers, as well as delving into methodology, technique, interpretation, and repertoire.

MU 175 Vocal Techniques (2) This course is designed to instruct singers in how to teach private or class voice. The course will explore the various techniques and methods used to teach singing and will include the study of IPA (International Phonetic Alphabet) in order to be able to teach repertoire in French, German, Italian, English, Latin, and Spanish.

Natural Science

Lower-Division Course Descriptions

LS 012 Introduction to Life Sciences (4) An introduction to the processes of life, from the biochemical to ecological/evolutionary levels of organization. Includes discussions of heredity, genetic technologies, biodiversity, evolutionary theory, populations growth, conservation, and environmental stewardship..

PHS 007 Astronomy: Discovering the Universe (4) History of astronomy, the stars and constellations of the night sky, celestial mechanics, exploration of the solar system, survey of planets and moons, discussion of the properties of stars and galaxies, structure of the universe, introduction to cosmogony. Course includes observatory sessions outside of the class time.

PHS 011 Introduction to Physical Sciences (4) An introduction to physics, chemistry, earth science, and astronomy including mechanics, electricity and magnetism, energy, theories of the atom, periodic table, chemical reactions, oceans, erosion, climate change, cosmology, and the solar system.

PHS 017 The Physics of Music (4) An exploration of music and sound from the perspective of classical physics. Topics include basic physical principles of vibrating systems, wave propagation, and resonance; the ear and the perception of sound, pitch, tone quality, and harmony; scales and temperament; musical instruments and the human voice; the electronic reproduction of sound; and room acoustics. Course will include some "hands-on" activities and attendance of at least two local music production or recitals.

PHS 030 Physics for Future Presidents (4) An introduction to physics that focuses on what a future world leader would need to know. Fundamental principles of physics will be discussed: energy, forces, atoms, nuclei, radioactivity, electromagnetism, light, quantum physics and relativity. These principles will be used to discuss applications that impact society at large: power generation, including alternative energy sources such as solar cells, the electrical grid, radioactivity, nuclear waste and climate change.

Upper-Division Course Descriptions

PHS 114 Earth Science (4) An introduction to astronomy, geology, meteorology, and oceanography.

Nursing

Associate Professors S. Curtis, D. Hoffman (Program Director)
Assistant Professors J. Barbosa, J. Colborn, M. Fayram, L. Gardia (Assistant Director), M. Gomez, C. Howe, E. Murray (Assistant Director), D. Wong
Instructor B. Luiken, E. Zorn

Program Description. The curricular framework used to develop the program includes the American Association of Colleges of Nursing (AACN) *Essentials of Baccalaureate Education for Professional Nursing Practice* (AACN, 2008), *Quality and Safety Education for Nurses Competencies* (QSEN, 2007), and *Interprofessional Education Collaborative Competencies* (IPEC, 2016 update) with Christian Servant Leadership, Compassionate Care, the nursing process, CA BRN Nurse Practice Act, and American Nurses Association Code Of Ethics (2015) as threads throughout the nursing curriculum. The student will enroll in an Accelerated Bachelor of Science in Nursing program (ABSN) that will occur over a sixteen-month period and will graduate with a Bachelor of Science in Nursing (BSN) degree. The curricular framework is included in each course syllabus and provide the structure by which learning activities are planned and courses and program outcomes are achieved. Educating the baccalaureate nurse today includes a systematic look from the micro to macro units that make up healthcare. The curriculum is designed to ensure the graduate has the knowledge, skills, and attitude to care for the diverse populations seen today and to understand and find new initiatives to address the aging population and other vulnerable populations including the very young, homeless, veterans, the uninsured, and the socially or physically disadvantaged. Baccalaureate nurses will use technology to guide best practices, communicate with rural populations through telemedicine and telehealth, and find new delivery models that provide the safest and most improved care. Managing patient care while collaborating with the interprofessional team will become the norm and with the interprofessional team new public policies will be developed to continue to improve the care of populations locally, nationally, and globally. (https://www.aacnursing.org/Education-Resources/AACN-Essentials).

Program Distinctives. The unique distinctive of the ABSN program is that it incorporates a Christian perspective of the liberal arts, which is a primary link to the healing arts, uncommon in most Bachelor of Science in Nursing (BSN) programs. Westmont College adheres to a profound belief that the BSN program will acquaint students with a biblical perspective of patient care through interdisciplinary lenses to the topics of suffering and the cultivation of empathy and sympathy, and will explore compassionate care in light of social policies, health systems and social structures. This allows the student to serve God's kingdom by cultivating grateful servants and faithful leaders for global engagement with the academy, church and world. The ABSN program will provide an opportunity for the BSN student to experience wholistic care dynamics in a Christ-centered approach that responds to the needs of the community. It is indeed, a unique and privileged distinctive, often unseen in other nursing programs. To that end, many of the general education requirements for the nursing major have been built into the curriculum for students that may not have completed them prior to entering

the Nursing program, including the religious studies, world history, and modern foreign language requirements.

Career choices. Licensure as a baccalaureate prepared registered nurse opens your opportunities for diversity in care at the individual, community or population level. Roles include manager of patient care in an acute, ambulatory, or home setting, direct patient care delivery in specialties like Obstetrics, Pediatrics, Psychiatric/Mental Health, Intensive Care, Emergency Department and Trauma Services, Surgical Services and others. Baccalaureate registered nurses enjoy leadership positions, informatics, case management, school nursing, and public health nursing with endless possibilities caring for others.

Bachelor of Science in Nursing

Core Program Requirements (74 units):

Nursing Theory and Clinical Practice (42 units)
- NUR 211 Fundamentals for Nursing Practice (6)
- NUR 230 Beginning Medical/Surgical/Geriatric Nursing (7)
- NUR 240 Maternal/child Health Nursing (3)
- NUR 250 Pediatric Nursing (3)
- NUR 265 Psychiatric/Mental Health Nursing (3)
- NUR 270 Intermediate Medical/Surgical/Geriatric Nursing (7)
- NUR 285 Advanced Medical/Surgical/Geriatric Nursing (7)
- NUR 290 Public Health Nursing (4)
- NUR 295 Nursing Leadership (2)

Common Contexts (12 units)*:*
- HIS 010 Perspectives on World History (4)
- *Two classes from the following:*
  - RS 001 Introduction to the Old Testament (4)
  - RS 010 Introduction to the New Testament (4)
  - RS 020 Introduction to Christian Doctrine (4)

Common Inquiries (3 units)
- SP 200 Spanish for Healthcare Professionals (3)

Professional Reflections (4 units)
- NUR 260 Evidence-Based Practice for Nursing (2)
- NUR 275 Professional Nursing Roles (2)

Upper-Division Supporting Sciences (8 units)
- NUR 210 Pathophysiology for Nursing (2)
- NUR 213 Pharmacology for Nursing (3)
- SOC 200 Understanding My Neighbor: Society, Culture, and Health (3)

Nursing and the Liberal Arts (5 units)
PHI 200 Nursing for Human Flourishing (3)
NUR 280 Nursing and the Liberal Arts (2)

Course Descriptions

NUR 210 Pathophysiology for Nursing (2) Pathophysiology introduces the student to pathophysiology and disruptions in the normal body functioning in individuals across the life span. Through a combination of theoretical instruction and practical application, students will explore the underlying mechanisms of disease, emphasizing the integration of knowledge into nursing practice. Objective and subjective manifestations of common health problems resulting from the environmental, genetic, and stress-related maladaptation's are assessed and analyzed.

NUR 211 Fundamentals for Nursing Practice (6) Learners will acquire interviewing techniques and skills for a comprehensive biopsychosocial, cultural, religious, and physical assessment, implementing palpation, auscultation, percussion, and inspection using a holistic approach. Simultaneously, the course introduces fundamental nursing concepts within the medical/surgical/geriatric series. Topics encompass the foundation of holistic, patient-centered, and compassionate care, ethics, legal consideration, regulatory requirements, and internal and external factors influencing nursing practice. The course emphasizes evidence-based practice, connecting it to quality outcomes, and incorporates the Quality and Safety in Nursing Education framework for clinical evaluation. Initial skill development occurs in the skills and simulation lab, with practical application during clinical rotations. Lecture units: 4, Lab units: 2.

NUR 213 Pharmacology for Nursing (3) This course provides an introduction to nursing pharmacology that integrates the concepts of physiology, pathophysiology, chemistry, and nursing fundamentals to build a foundation for administering drug therapy to patients. Using a simple to complex approach, key content areas are presented to help conceptualize the important components related to nursing pharmacology. The basic concepts of pharmacology, such as drug testing and approval, pharmacokinetics and pharmacodynamics, therapeutic and toxic effects, dosage calculations, and challenges related to drug therapy, provide the foundation from which drug therapy associated with specific body systems can be addressed. Discussion of the major drug groups focuses on therapeutic actions and indications, pharmacokinetics, contraindications and cautions, adverse effects, clinically important drug-drug interactions, and nursing considerations, which emphasize the nursing process and focus on patient care and teaching. Prototypes of the major drug groups are emphasized. Lifespan considerations, evidence for best practice, patient safety, and critical thinking are integrated throughout the course. Lecture units: 2, Lab units: 1.

NUR 230 Beginning Medical/Surgical/Geriatric Nursing (7) This course focuses on the beginning concepts and practices in the provision of medical, surgical care for the adult and geriatric patients. Beginning M/S/G will equip the nursing student with the skills for compassionate care of adults and elderly patients with chronic conditions in acute and long-term care settings. The curriculum emphasizes the

nurse's role in peri, intra, and postoperative nursing management, fostering an understanding of interprofessional collaboration. With a holistic approach, the course integrates physiology, pathophysiology, and psychosocial aspects, empowering students with evidence-based knowledge to apply critical thinking and clinical reasoning in evolving practice environments across the health and illness spectrum. Lecture units: 3, Lab unit: 4.

NUR 240 Maternal/Child Health Nursing (3) Holistic care of the patient and family through childbirth is the focus of maternal-child health. This course provides a foundation for a theoretical and technical knowledge base while caring for the contemporary family-centered childbirth. Maternal-child health conditions are viewed from an evidence-based, nursing process approach for the antepartum, intrapartum, postpartum, and neonatal patient. Correlated clinical experiences emphasize clinical decision making, patient care management, prioritization of care, and development of psychomotor skills. Lecture units: 2, Lab units: 1.

NUR 250 Pediatric Nursing (3) Holistic care of the pediatric patient through the stages of growth and development and along the illness to wellness continuum is the focus of this course. The role of the parents during a child's hospitalization, the complex calculation of pediatric medications, play therapy, and common childhood conditions are topics that will be covered. The use of evidence-based practices in the care of children will be emphasized utilizing the nursing process to develop patient-specific, developmentally appropriate plans of care. Lecture units: 2, Lab units: 1.

NUR 260 Evidence-Based Practice for Nursing (2) This course is designed to identify critical appraisal skills that assist nurses to become competent research consumers. This course focuses on qualitative, quantitative and mixed method research which serves to compare and evaluate evidence-based practice and healthcare in clinical practice. Emphasis is on retrieving, critiquing, and synthesizing best evidence as a foundation for delivery of safe, quality, patient-centered care.

NUR 265 Psychiatric/Mental Health Nursing (3) This course explores the specialized field of psychiatric and mental health nursing, equipping students with essential knowledge and skills to provide holistic care for individuals experiencing mental health challenges. Emphasizing a compassionate and evidence-based approach, the curriculum covers the assessment, diagnosis, and therapeutic interventions for various mental health disorders across the lifespan. Topics include the exploration of psychosocial theories, therapeutic communication techniques, and pharmacological interventions. Students will gain insights into the impact of mental health on physical well-being, familial dynamics, and societal relationships. The course integrates clinical experiences, case studies, and simulated scenarios to enhance practical proficiency in assessing, planning, implementing, and evaluating mental health nursing interventions. Lecture units: 2, Lab units: 1.

NUR 270 Intermediate Medical/Surgical/Geriatric Nursing (7) This course builds upon foundational knowledge acquired in previous nursing courses, developing a more in depth knowledge of adult and geriatric patients who have diverse and acute disease states emphasizing the unique physiological, psychological, and social aspects of aging that influence health outcomes. Students are prepared to provide proficient care to patient with diverse and acute medical-surgical conditions. Students will become the manager and coordinator of care through integration of evidence-based

practice, critical thinking, and clinical reasoning for their patients. Lecture units: 3, Lab units: 4.

NUR 275 Professional Nursing Roles (2) This course explores the diverse roles and responsibilities of professional nurses within the context of contemporary healthcare delivery systems. Emphasizing the evolving landscape of nursing practice, students will examine the historical foundations, ethical principles, and legal regulations shaping the nursing profession.

NUR 280 Nursing and the Liberal Arts (2) Nursing is a multidisciplinary field which has been long recognized to rely on the natural sciences, behavioral sciences and social sciences. More recently, the field of the medical humanities has shown how the classic humanities (English, history, philosophy, religious studies, art, music, and foreign language) can support and inform health care practice. Therefore, nursing can be enriched by disciplines across the entire breadth of the liberal arts. This seminar is designed to illustrate the connections between nursing or health care and one or more areas of the liberal arts. The topic of this particular course is healing and the healer around the world. We will keep an eye out for how the healing arts engages the disease process, the entire human self, and how the healer makes sense of his or her own practices of healing. During the first part of our course, we will consider ways the limits of healing in Western forms of medicine. In the second part of our course, we will consider non-Western approaches to healing, which will include the role of Christianity, the church, and spiritual realities. The course will include readings, films, discussions, and class guests. Among the topics we will consider are the following: Medicine in the West and non-Western world; grief in the healers and those being healed; mortality; spiritual formation; and more. Our perspective will be global as much as possible in order to tease out universal and particular themes of healing in various contexts and invite a view that goes beyond a mechanistic view of medicine.

NUR 285 Advanced Medical/Surgical/Geriatric Nursing (7) This course focuses on the advanced concepts and practices in the provision of medical, surgical care for the adult and geriatric patients. It builds upon foundational knowledge acquired in previous nursing courses, emphasizing the unique physiological, psychological, and social aspects of aging that influence health outcomes. Students are prepared to provide expert care to patient with complex acute and chronic medical-surgical conditions. Students will become the manager and coordinator of care through integration of evidence-based practice, critical thinking, and clinical reasoning for their patients. Lecture units: 3, Lab units: 4.

NUR 290 Public Health Nursing (4) This course examines the nursing role in caring for individuals, families, populations, aggregate populations, and communities at local, state, national, and global levels, emphasizing assessment, planning, priority diagnosis, implementation, and evaluation of population-based health interventions. The course focuses on basic principles of public health nursing science, emphasizing health promotion and disease prevention, Utilizing public health frameworks such as Healthy People and public health nursing interventions at the primary, secondary, and tertiary levels of prevention. Concepts of health equity, health disparities, social determinants of health (SDOH), and vulnerable populations are explored. Students will enhance critical thinking skills with a holistic approach and experience

collaboration with community-based organizations and Public Health agencies. The course aligns with CCR1491 of the CA Board of Registered Nursing Public Health Certificate, which requires 90 hours of direct community/Public Health skills/experience in diverse settings. Lecture units: 2, Lab units: 2.

NUR 295 Nursing Leadership (2) This course introduces the leadership roles and management functions of professional registered nurses within the structure of an organization. The management process provides the structure for the course. Emphasis is given to organization theory, management theory, and behavioral theory. Accountability for quality assurance in the provision of nursing care, multidisciplinary communication, and collaborative relationships are emphasized. The legal authority for nursing practice, the impact of political and legislative processes, and ethical issues in management are also discussed. Various modes of inquiry, including nursing process, problem-solving models, and decision-making tools, are emphasized as tools for analyzing complex leadership and management problems common to nursing leaders and managers. In addition, this course follows the principles of adult learning including a collaborative model of learning, an appreciation of and accommodation for individual life experiences, a fostering of critical reflective thinking, creation of a participative environment, and empowerment of the learner through self-direction of the learning process. The concept of life-long learning also applies, which encourages students to strive to achieve their personal best in all aspects of the course. Lecture units: 2.

PHI 200 Nursing for Human Flourishing (3) An introduction to the main ideas and methods of philosophy and central problems, significant figures in the philosophic tradition, and some of the significant schools of thought. Attention is given to the assessment of world and life views and to the development of a Christian world and life view. This course provides. Nursing students with philosophical resources to reflect on the contribution of nursing to human flourishing. More specifically, it will give nursing students an opportunity to think about the contribution of nursing to human flourishing in light of philosophical contemplation on the nature and methods of philosophy, the existence and nature of God, the nature and dignity of human beings made in God's image, intellectual and moral virtues, ethical theories and problems, and political issues and theories.

SOC 200 Understanding My Neighbor: Society, Culture, and Health (3) This course introduces students to the sociological study of health in society. Students will explore a variety of topics related to sociology and health, including the social factors that influence health, modern health in developed and developing countries, the meaning and experience of living in poor health, and health care in the United States. In addition to key social factors like race, class, gender, and sexuality, we will examine the role of religion and spirituality in health, including health benefits and the so-called "dark side of religion," where religion and spirituality can be associated with negative outcomes. Throughout the course students will learn to adopt a sociological lens in cultivating a deeper understanding of the social world. This is a Liberal Arts course that supports and prepares nursing students to provide informed, patient-centered care in a variety of healthcare settings. SOC 200 has a frontloaded two-week intensive following by a short period of independent research.

SP 200 Spanish for Healthcare Professionals (3) This course is for beginning-level Spanish learners in the nursing program who wish to communicate with their Spanish-speaking patients more effectively. Topics include basic grammar and idiomatic phrases in Spanish as related to their common professional activities in a clinical setting. Advanced-level students are welcome if they need to develop their medical vocabulary and to participate as assistants in classroom activities. Students who are interested in acquiring more advanced Spanish language skills in general are invited and encouraged to enroll in traditional Spanish courses.

Philosophy

Kenneth and Peggy Monroe Chair of Philosophy, Professor M. Nelson (chair)
Professors D. Vander Laan

Description of the Major. Philosophy is a thorough and systematic examination of the most fundamental questions facing human beings. At Westmont, the program in philosophy is designed to foster the ability to think critically and analytically, communicate clearly and logically, interact with the philosophical tradition, and explore the relationship between philosophy and the Christian faith.

The program also provides a philosophical framework for specific academic disciplines (such as philosophy of science and philosophy of religion), and it helps students acquire the intellectual skills needed in integrating knowledge. Philosophy courses provide an exposure to the ideas essential in understanding our political, literary, and religious heritage.

Distinctive Features. Philosophy at Westmont is a serious attempt to find answers to crucial questions of human existence, knowledge, values, and society that do justice to the Christian faith. Whereas Christian philosophers are not committed to specific answers on all philosophical issues by virtue of the Christian position, they are aware that the Christian faith has important, and at times crucial, implications.

The Westmont chapter of Phi Sigma Tau, a national honor society in philosophy, provides an active forum for student fellowship and discussion. In addition, students may join the Society of Christian Philosophers, which holds a Mountain-Pacific regional conference and brings well-known Christian philosophers to the area.

Career Choices. Besides having an integrity of its own, a major in philosophy provides a foundation for graduate work in philosophy and valuable preparation for professional training in such fields as law, management, and the ministry. Philosophy majors consistently excel in their performance on graduate admissions tests in law (LSAT), in management (GMAT) and on the Graduate Record Exam (GRE). Given the variety of student objectives, the major provides five concentrations: graduate school, pre-law, pre-M.B.A., pre-seminary, and social issues and the human condition.

Requirements for a Major: 36 units

Required Philosophy Major Core: 20 units

PHI 006 or PHI 006H Philosophical Perspectives (4)
IS 010H may be substituted for Augustinian Scholars
PHI 108 Formal Logic (4)
PHI 195 Senior Seminar (4)

Two of the following four courses:
PHI 103 Ancient Philosophy (4)
PHI 105 Medieval Philosophy (4)
PHI 106 Modern Philosophy (4)
PHI 107 19th and 20th Century Philosophy (4)

It is recommended that Philosophy majors take PHI 108, and two of the four history of philosophy courses (103, 105, 106, and 107) early on, preferably before taking additional upper-division courses.

Elective Courses: 16 units

Students may select elective courses from one of the areas of concentration below or select elective courses from among the various concentrations to meet the 16 elective unit requirement. At least 12 of the 16 elective units must be in upper division Philosophy courses.

Elective Courses Recommended for the Graduate School Concentration: 16 units
PHI 104 Ethics (4)
PHI 170 Epistemology (4)
PHI 175 Metaphysics (4)
Upper-Division PHI Elective (4)
Suggested alternative to the courses above for those who quality:
PHI 199 Major Honors (4)
Strongly recommended (but not required) beyond the major requirements: 12 units of upper-division Philosophy coursework

Elective Courses Recommended for the Pre-M.B.A. Concentration: 16 units
Two of the following: (8)
PHI 104 Ethics (4)
PHI 113 Contemporary Moral Problems (4)
PHI 133 Political Philosophy (4)
PHI 137 Justice and Public Policy (4)
Two of the following: (8)
PHI 130 Philosophical Theology (4)
PHI 135 Philosophy of Language (4)
PHI 163 Philosophy of Religion (4)
PHI 170 Epistemology (4)
PHI 175 Metaphysics (4)
Suggested alternative to the courses above for those who quality:
PHI 199 Major Honors (4)
Suggested but not available for major credit:
EB 011 Principles of Macroeconomics (4)
EB 003 Principles of Accounting (4)

Elective Courses Recommended for the Pre-Law Concentration: 16 units
Two of the following: (8)
PHI 015 Intellectual Virtue and Civil Discourse (4)
PHI 104 Ethics (4)

PHI 113 Contemporary Moral Problems (4)
PHI 133 Political Philosophy (4)
PHI 137 Justice and Public Policy (4)

Two of the following: (8)
PHI 012 Critical Reasoning and Logic (4)
PHI 130 Philosophical Theology (4)
PHI 135 Philosophy of Language (4)
PHI 163 Philosophy of Religion (4)
PHI 170 Epistemology (4)
PHI 175 Metaphysics (4)

Suggested alternative to the courses above for those who quality:
PHI 199 Major Honors (4)

Suggested but not available for major credit:
POL 104 Constitutional Law (4)
POL 130 Classical Political Theory (4)

Elective Courses Recommended for the Pre-Seminary Concentration: 16 units

Two of the following: (8)
PHI 104 Ethics (4)
PHI 170 Epistemology (4)
PHI 175 Metaphysics (4)

Two of the following: (8)
PHI 015 Intellectual Virtue and Civil Discourse (4)
PHI 130/RS 130 Philosophical Theology (4)
PHI 135 Philosophy of Language (4)
PHI 163/RS 163 Philosophy of Religion (4)

Suggested alternative to the courses above for those who quality:
PHI 199 Major Honors (4)

Suggested but not available for major credit:
RS 103 Christian Apologetics (4)
RS 119 Early and Medieval Christianity**—100-1450** (4)
RS 120 Reformation and Modern Christianity (4)
RS 125 Theology (4)
RS 126 Topical Theology (4)
RS 142 World Religions (4)

Elective Courses Recommended for the Social Issues and the Human Condition Concentration: 16 units

Two of the following: (8)
PHI 015 Intellectual Virtue and Civil Discourse (4)
PHI 104 Ethics (4)
PHI 113 Contemporary Moral Problems (4)
PHI 133 Political Philosophy (4)
PHI 137 Justice and Public Policy

One of the following: (4)
PHI 130 Philosophical Theology (4)
PHI 135 Philosophy of Language (4)
PHI 163 Philosophy of Religion (4)
PHI 170 Epistemology (4)
PHI 175 Metaphysics (4)

Suggested alternative to the courses above for those who quality:
PHI 199 Major Honors (4)
Off-Campus Program (spring or fall): (4)
The off-campus semester's work will be planned in consultation with the philosophy department.
On the Westmont in San Francisco Program, the American Studies Program in Washington, D.C., and the Westmont Downtown Program, four units of philosophy credit will be given for a philosophically-oriented internship that focuses on social issues and the human condition.
On the Oregon Extension Program, four units of philosophy credit will be given for any one of the following courses: "Selected Social Issues in Philosophical Perspective" (PHIL 396), "Philosophical Perspectives on Sustainability" (PHIL 397)," and "Philosophical Perspectives on the Human Person" (PHIL 398).

Requirements for a Minor: 20 units

Completion of 20 units of Philosophy, which may include IS 010H (for Augustinian Scholars) and must include at least 12 units of upper-division Philosophy coursework.

Lower-Division Course Descriptions

PHI 006 Philosophical Perspectives (4) An introduction to the main ideas and methods of philosophy and central problems, significant figures in the philosophical tradition, and some of the significant schools of thought. Also a philosophical introduction to the Christian liberal arts. Attention is given to the assessment of world and life views and to the development of a Christian world and life view.

PHI 006H Philosophical Perspectives: Honors (4) Prerequisite: By invitation only. An advanced introduction to philosophy and its main ideas and methods. Also a philosophical introduction to the Christian liberal arts.

PHI 007 Philosophical Perspectives on Conflict and Peacemaking (4) An exploration into the relationship of several major areas of philosophy - ethics, metaphysics, epistemology and political philosophy – and conflict and peacemaking.

PHI 012 Critical Reasoning and Logic (4) A study of correct reasoning. Emphasizes the ability to detect fallacious arguments and construct sound ones. Includes the analysis of informal argumentation in everyday discussions. Attention to some formal logical skills. Highly recommended for pre-law students.

PHI 015 Intellectual Virtue and Civil Discourse (4) A philosophical introduction to the topics of intellectual virtue and civil discourse that includes theoretical principles, personal models, and conversational practice.

Upper-Division Course Descriptions

PHI 103 Ancient Philosophy (4) Prerequisite: PHI 006, PHI 006H or IS 010H. A critical survey of major Western philosophers from the pre-Socratics to philosophers of the late ancient Greco-Roman period. Includes emphasis on abstract reasoning.

PHI 104 Ethics (4) Prerequisite: Junior standing and PHI 006, PHI 006H, POL 030, or IS 010H. Emphasizes the full variety of normative ethical theories; addresses current issues in meta-ethics, including moral skepticism, justification of ultimate norms, and the question of justice and rights.

PHI 105 Medieval Philosophy (4) Prerequisite: PHI 006, PHI 006H, or IS 010H. A critical survey of major Western philosophers from late antiquity to the late medieval period. Includes emphasis on abstract reasoning.

PHI 106 Modern Philosophy (4) Prerequisite: PHI 006, PHI 006H, or IS 010H. A critical survey of major Western philosophers of the modern period from Descartes through Kant to Thomas Reid. Includes emphasis on abstract reasoning.

PHI 107 19th and 20th Century Philosophy (4) Prerequisite: PHI 006, PHI 006H, or IS 010H. A critical survey of major Western philosophers from Hegel to Rorty. Includes emphasis on abstract reasoning.

PHI 108 Formal Logic (4) A study of symbolic logical systems. Includes propositional logic, predicate logic, modal logic, and basic results of metatheory. May include other topics in philosophical methodology. Substantial attention to formal logical skills.

PHI 113 Contemporary Moral Problems (4) Prerequisite: PHI 006, PHI 006H, POL 030, or IS 010H. Addresses moral issues such as abortion, animal rights, euthanasia, suicide, the death penalty, war, life-boat ethics, marriage and sexual integrity, homosexuality, pornography, and women's issues.

PHI 130/RS 130 Philosophical Theology (4) Prerequisites: PHI 006, PHI 006H, or IS 010H and RS 020. Analysis of God's attributes (omniscience, immutability, eternality); the relation of time to eternity; the Trinity; God's foreknowledge and human freedom; morality and God's will; the logic of the Incarnation.

PHI 131/ART 131 Theory and Criticism in the Arts (4) An exploration into theories in the arts (including theatre, music, and the visual arts) with an emphasis on the historical trajectory of these theories in the West, and a critical examination of their relevance for contemporary arts criticism.

PHI 133 Political Philosophy (4) Prerequisite: PHI 006, PHI 006H, POL 030, or IS 010H. Topics such as the basis and justification of political obligation; alternative theories of just distribution (e.g., libertarian, egalitarian, welfarist, and republican); the liberalism/communitarianism debate; the role of religious commitment in the public square.

PHI 135 Philosophy of Language (4) Prerequisite: PHI 006, PHI 006H, or IS 010H. An investigation of philosophical questions about language raised by both analytic and continental philosophers. Potential topics: the nature of language, philosophical hermeneutics, meaning, truth, reference, analyticity and synonymy, propositions, speech acts, metaphor and religious language. Various interdisciplinary connections.

PHI 137 Justice and Public Policy (4) Prerequisite: PHI 006, PHI 006H, POL 030, or IS 010H. Analysis of philosophical accounts of distributive justice as well as policy proposals dealing with such issues as poverty, global justice, multinational corporations, human trafficking, immigration, health care and climate change.

PHI 138 Philosophy of Race (4) Prerequisite: PHI 006, PHI 006H, POL 030, or IS-010H. An examination of philosophical issues surrounding the notion of "race." Topics include: the metaphysics of race, race and knowledge, the nature of racism, incarceration, identity, reparations, affirmative action, and multiculturalism.

PHI/HIS 149 Philosophy of History (4) Speculative and critical philosophy of history. Evaluates attempts to discern a pattern of meaning in history. Attention given to the problems of historical understanding and objectivity.

PHI 150 Topics in Philosophy (2,4) Prerequisite: Consent of instructor. Exploration of a selected philosophical problem, school, figure or subject.

PHI 163/RS 163 Philosophy of Religion (4) Prerequisites: PHI 006, PHI 006H, or IS 010H, and RS 020. Significance of religious phenomena and the veracity of religious beliefs.

PHI 170 Epistemology (4) Prerequisites: Junior standing and PHI 006, PHI 006H ,or IS 010H, and PHI 108. Origin, nature, scope, and structure of knowledge, including a survey of the main problems and positions.

PHI 175 Metaphysics (4) Prerequisites: Junior standing and PHI 006, PHI 006H, or IS 010H, and PHI 108. Theories of reality and its most general features. Potential topics include the nature of time, identity, constitution of material objects, causation, freedom, the mind/body problem, universals, possibility and necessity.

PHI 189 Aesthetics (4) A critical survey of the various ways, both historical and contemporary, in which people have understood art and the aesthetic experience.

PHI 190 Internship (1-8) Internship related to major at a variety of employers.

PHI 195 Senior Seminar (4) Prerequisite: Philosophy majors only. To be taken by all philosophy majors during their last spring semester on campus. A writing-intensive capstone seminar course designed to help students to: (a) integrate their major, (b) prepare for transition to life after graduation, and (c) reconnect with fellow graduating philosophy majors.

PHI 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Physics

Professor R. Haring-Kaye (chair)
Assistant Professors B. Carlson, J. Gee
Instructor W. Allison

***D*escription of the Major**. Physicists seek a fundamental understanding of the physical universe. The skills and knowledge gained in studying physics can be applied not just in research but in several applied disciplines as well. The major includes courses in mathematics (the foundation of science) computer science (for computational proficiency) and physics. In addition to theory courses, both laboratory classes and hands-on research provide the practical training that is relevant to both graduate school or professional work in science and engineering. A Computational and Data Physics track provides students with a strong foundation in core physics principles coupled with courses in computer science that provide a robust literacy for solving computational problems in the physical sciences. Students who follow this track are well-suited for a variety of technical careers, most notably those in software engineering and related fields. For students desiring greater breadth (or a double major) there is also the B.A. degree track that allows greater flexibility. Also consider our Physics Education Fast Track program, a collaboration between the Departments of Physics and Education. With careful planning, you can complete a secondary (single-subject) teaching credential in four years, including a B.A. in physics and a minor in education that fulfill the prerequisites for the Teaching Credential Program.

***D*istinctive Features**. Beyond coursework the opportunity to participate in research is available to students in the department. Current research opportunities include astrophysics investigations utilizing both microwave and optical techniques, particle physics in conjunction with the ATLAS experiment at the Large Hadron Collider and nuclear structure studies using gamma-ray spectroscopy. Internships and summer research programs (both on campus and NSF sponsored programs at other institutions) are available and encouraged. Students are welcome to participate in an off-campus program, ideally during the spring semester of their sophomore year.

***C*areer Choices.** A physics degree provides a solid foundation for a great many careers besides that of research physicist including: science writing, patent law, software development, materials research, nuclear medical science, forensic science, museum education, engineering (mechanical, electrical, process, civil, aeronautical, etc.), medicine, a variety of technical positions, and teaching (high school or college).

Requirements for a B.A. in Physics: 57 units

Required Lower-Division Courses: 35 units

CS 010 Introduction to Computational Problem Solving (4)

MA 009, 010 Calculus I, II (4,4)
MA 019 Multivariable Calculus (4)
MA 040 Differential Equations with Linear Algebra (4)
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)
PHY 025 Modern Physics (4)
PHY 026 Modern Physics Laboratory (1)

Recommended: CHM 005 General Chemistry I (4)

Required Upper-Division Courses: 22 units

PHY 105 Computational Physics (4)
One of the following: (4)
PHY 121 Quantum Mechanics I (4)
PHY 150 Electricity and Magnetism (4)
One of the following: (4)
PHY 131 Classical Mechanics (4)
PHY 160 Thermodynamics (4)*
PHY 170 Advanced Physics Lab (1)
PHY 195 Senior Seminar (1)
Two of the following: (8)
PHY 115 Mathematical Physics (4)
PHY 121 Quantum Mechanics (4)
PHY 131 Classical Mechanics (4)
PHY 150 Electricity and Magnetism (4)
PHY 160 Thermodynamics (4)*

*EN 120 Thermodynamics may not be substituted

Requirements for a B.S. in Physics: 70-72 units

General Physics Track: 71-72 units

Required Lower-Division Courses: 35 units

CS 010 Introduction to Computational Problem Solving (4)
MA 009, 010 Calculus I, II (4,4)
MA 019 Multivariable Calculus (4)
MA 040 Differential Equations with Linear Algebra (4)
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)
PHY 025 Modern Physics (4)
PHY 026 Modern Physics Laboratory (1)

Recommended: CHM 005 General Chemistry I (4)

Required Upper-Division Courses: 36-37 units

PHY 105 Computational Physics (4)
PHY 115 Mathematical Physics (4)
PHY 121, 122 Quantum Mechanics I, II (4,4)
PHY 131 Classical Mechanics (4)
PHY 150 Electricity and Magnetism (4)
PHY 160 Thermodynamics (4)*
PHY 170 Advanced Physics Lab (1)
PHY 195 Senior Seminar (1)
PHY 198 Research (2)
One of the following: (4-5)
PHY 142, 143 Circuits and Electronics, Laboratory (4,1)
PHY 151 Electromagnetic Waves and Optics (4)
PHY 152 Advanced Electricity and Magnetism (4)

*EN 120 Thermodynamics may not be substituted

Computational and Data Physics Track: 70 units

Required Lower-Division Courses: 43 units

CS 010 Introduction to Computational Problem Solving (4)
CS 015 Discrete Mathematics (4)
CS 030 Introduction to Object Oriented Data Structures (4)
MA 009, 010 Calculus I, II (4,4)
MA 019 Multivariable Calculus (4)
MA 040 Differential Equations and Linear Algebra (4)
PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)
PHY 025 Modern Physics (4)
PHY 026 Modern Physics Laboratory (1)

Required Upper-Division Courses: 27 units

CS 120 Design and Analysis of Algorithms (4)
PHY 105 Computational Physics (4)
PHY 170 Advanced Physics Lab (1)
PHY 195 Senior Seminar (1)
Three of the following: (12)
PHY 121 Quantum Mechanics (4)
PHY 131 Classical Mechanics (4)
PHY 150 Electricity and Magnetism (4)
PHY 160 Thermodynamics (4)*
One of the following: (4)
CS 116 Artificial Intelligence (4)
CS 125 Database Design (4)
CS 128 Information Retrieval and Big Data (4)
CS 130 Collaborative Software Engineering (4)

One of the following: (1)
CS 190 Internship (1)
EN 190 Internship (1)
PHY 190 Internship (1)
PHY 198 Research (1)

Recommended: CS 150 Topics in Computer Science: Human Factors (4)

*EN 120 Thermodynamics may not be substituted

Requirements for a Physics Minor: 23-24 units

Required Lower-Division Courses: 15 units

PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)
PHY 025 Modern Physics (4)
PHY 026 Modern Physics Laboratory (1)

Two Required Upper-Division Courses from the following: 8-9 units

PHY 115 Mathematical Physics (4)
PHY 121 Quantum Mechanics I (4)
PHY 131 Classical Mechanics (4)
PHY 142, 143 Circuits and Electronics, Laboratory (4, 1)
PHY 150 Electricity and Magnetism (4)
PHY 160 Thermodynamics (4)

*EN 120 Thermodynamics may not be substituted

Requirements for an Astrophysics Minor: 24 units

Required Lower-Division Courses: 15 units

PHY 021, 023 General Physics I, II (4,4)
PHY 022, 024 General Physics Laboratory I, II (1,1)
PHY 025 Modern Physics (4)
PHY 026 Modern Physics Laboratory (1

Required Upper-Division Courses: 9 units

PHY 125 Observational Astronomy (1)
One of the following: (4)
PHY 127 Astrophysics I (4)
PHY 128 Astrophysics II (4)
One of the following: (4)
PHY 115 Mathematical Physics (4)
PHY 121 Quantum Mechanics I (4)
PHY 131 Classical Mechanics (4)

PHY 150 Electricity and Magnetism (4)
PHY 160 Thermodynamics (4)*

*EN 120 Thermodynamics may not be substituted

Lower-Division Course Descriptions

PHY 007/PHS 017 The Physics of Music (4) An exploration of music and sound from the perspective of classical physics. Topics include basic physical principles of vibrating systems, wave propagation, and resonance; the ear and the perception of sound, pitch, tone quality, and harmony; scales and temperament; musical instruments and the human voice; the electronic reproduction of sound; and room acoustics. Course will include some "hands-on" activity and attendance of at least one local music production or recitals.

PHY 011 Physics for Life Sciences I (4) Prerequisite: Admissions math requirement. Topics include kinematics, Newtonian mechanics, work and energy, linear and angular momentum, conservation laws, fluid mechanics, and thermodynamics. Intended for biology, pre-medical, and kinesiology.

PHY 013 Physics for Life Sciences II (4) Prerequisite: PHY 011. Topics include electricity and magnetism, induction, circuits, sound and light waves, optics, and elements of atomic and nuclear physics. Intended for biology, pre-medical, and kinesiology majors.

PHY 014 Physics For Life Sciences Laboratory (1) Corequisite: PHY 013. Weekly three-hour laboratory. Covers experiments in mechanics, vibrations and waves, electromagnetism, circuits, and optics.

PHY 021 General Physics I (4) Prerequisite or corequisite: MA 009. The first of a two-semester foundational course sequence in introductory physics. Topics include kinematics, Newtonian mechanics, work and energy, statics and dynamics, linear and angular momentum, conservation laws, rotational motion, fluid mechanics, and thermodynamics. Students must be concurrently enrolled in MA 009 or have already completed the equivalent of MA 009 at the college level.

PHY 022 General Physics Laboratory I (1) Corequisite: PHY 021. Weekly three-hour laboratory. Covers experiments in kinematics, forces, conservation of momentum and energy, rotational motion, and thermodynamics.

PHY 023 General Physics II (4) Prerequisites: MA 009 and PHY 021. Continuation of the two-semester foundational course sequence in introductory physics. Topics include electric charges and current, electric and magnetic fields, capacitance, inductance, vibrations and waves, sound, circuits, and optics.

PHY 024 General Physics Laboratory II (1) Corequisite: PHY 023. Weekly three-hour laboratory. Covers experiments in vibrations and waves, electricity, magnetism, circuits, and optics.

PHY 025 Modern Physics (4) Prerequisites: PHY 023 and MA 010. Recommended corequisite: MA 019. Continuation of PHY 021, PHY 023 requiring advanced calculus. Introductory study of special relativity, quantum theory, atomic physics, and elements of solid state, nuclear, particle physics, and cosmology.

PHY 026 Modern Physics Laboratory (1) Prerequisite: PHY 025. An intermediate-level laboratory to follow PHY 025. Laboratory techniques and analysis skills developed in PHY 022 and PHY 024 are enhanced and refined through a more sophisticated development of statistical methods in data analysis, error propagation, and data acquisition techniques. Experiments correlate strongly with the topics covered in PHY 025.

PHY 095 Seminar (1) Developments of current interest in the sciences.

Upper-Division Course Descriptions

PHY 105 Computational Physics (4) Prerequisites: CS 010, MA 040, PHY 025 and PHY 150 or PHY 121. An introduction to scientific computing. An introduction to using python and C-programming to solve numerical methods and algorithms important in the sciences. Methods include: numerical solutions to differential equations, fast Fourier transforms, Monte Carlo simulations, chi-squared minimization techniques and fitting, date analysis, machine learning and visualization tools. Applications in the areas of elementary particle physics, condensed matter physics and astrophysics are discussed.

PHY 115 Mathematical Physics (4) Prerequisite: MA 019. Vector analysis: gradient, divergence, curl; complex analysis; curvilinear coordinate systems; matrices; eigenvalue problems; orthogonal functions.

PHY 121 Quantum Mechanics I (4) Prerequisites: MA 040, and PHY 025. Recommended pre/corequisite: PHY 115. Postulates in wave and quantum mechanics. Topics include: matrix mechanics, Hilbert space, angular momentum, time evolution, spin, wave mechanics, harmonic oscillator, hydrogen atom, symmetry principles, conservation laws, and identical particles.

PHY 122 Quantum Mechanics II (4) Prerequisites: PHY 025, MA 040, PHY 115, and PHY 121. Advanced continuation of PHY 121. Topics include: two body problem, bound states of central potentials, time-independent perturbation theories, the variational principle, the WKB approximation, scattering, photons, atoms, the EPR paradox, and Bell inequalities.

PHY 125 Observational Astronomy (1) Prerequisites: CS 010 and PHY 025 (PHY 105 is recommended). This course is an advanced laboratory course (junior/senior level) that explores observational and analytical techniques in optical astronomy. Experiments include topics of astrometry, instrumentation, and optical imaging. Computational analysis is integral to the course as well as other experimental methods and techniques.

PHY 127 Astrophysics I (4) Prerequisites: PHY 021 and PHY 023. Recommended prerequisite: PHY 025. Topics include introductory astronomy, stellar physics, star formation and evolution, and galaxy formation and evolution.

PHY 128 Astrophysics II (4) Prerequisites: PHY 021 and PHY 023. Recommended prerequisite: PHY 025. Topics include extrasolar planets, interstellar medium, special and general relativity, and cosmology. PHY 127 and PHY 128 may be taken in any order.

PHY 131 Classical Mechanics (4) Prerequisites: PHY 023 and MA 040. Recommended prerequisite: PHY 025. Newtonian mechanics, three dimensional motion, oscillations, central force motion, Lagrangian and Hamiltonian dynamics, rigid body dynamics.

PHY /EN 142 Circuits and Electronics (4) Prerequisites: PHY 023 and MA 010. Corequisite: PHY 143. An introduction to circuits and electronics including electrical quantities, circuit principles, signal filtering circuits, semiconductor diodes, transistors and integrated circuits. Digital electronics including logic gates and flip-flops. Analog electronics including operational amplifiers and design of large and small signal amplifiers.

PHY /EN 143 Electronics Laboratory (1) Corequisite: PHY 142. This weekly three-hour laboratory provides an introduction to practical electronic devices, experience in using some basic measurement techniques, and a feel for the capabilities and limitations of some common electronic instruments. The laboratory experiments are designed to supplement and complement the class (PHY 142) discussions.

PHY 150 Electricity and Magnetism (4) Prerequisites: PHY 023 and MA 040. Recommended pre/corequisite: PHY 115.Lorentz force equations for electric and magnetic forces, Maxwell's equations for electrostatics and magnetostatics with emphasis on vector differential operators and integration related to Gauss' law, the divergence theorem, Green's theorem, the Biot-Savart law; applications of LaPlace's and Poisson's equations; image solutions; properties of dielectrics and magnetic media.

PHY 151 Electromagnetic Waves and Optics (4) Antennas, electromagnetic waves, super-position, interference, Fraunhofer and Fresnel diffraction, crystal optics, matrix optics, laser beams and resonators, guided waves, quantum aspects of light fiberoptics and holography.

PHY 152 Advanced Electricity and Magnetism (4) Prerequisite: PHY 150. This course is the second in a yearlong sequence covering Maxwell's equations describing electromagnetism, and fully explores the dynamics of electromagnetic radiation. Specific topics include: electromagnetic momentum and energy, plane waves, reflection and refraction of waves, waveguides, dipole radiation. The connections between Einstein's theory of special relativity and electromagnetism will be explored, formulating a covariant formulation of Maxwell's equations. Applications will include transformation of the electromagnetic fields and relativistic kinematics.

PHY 155 Topics (2-4) Prerequisites: MA 009, 010, and PHY 025. Advanced treatment of topics of current interest in physics.

PHY 160/CHM 131 Thermodynamics (4) Prerequisites: MA 010 and PHY 025. Classical equilibrium thermodynamics: applications of the first and second law of thermodynamics to condensed and gas phases. Compressible flow and heat transfer. Principles and applications of statistical thermodynamics.

PHY 170 Advanced Physics Laboratory (1) Prerequisite: PHY 026. A junior/senior-level laboratory designed to give students experience in independent research in experimental physics. Experiments include topics of both historic and contemporary interest. Emphasis is given to statistical analysis of data, error analysis, interpretation of measurements, techniques of measurement, experimental design, and training for the professional dissemination of results. Computer control of apparatus and computational analysis are also incorporated.

PHY 190 Engineering Physics Internship (1) Projects meeting three hours per week under the tutelage of practicing engineers. Up to six units of internship may be taken for elective credit.

PHY 195 Senior Seminar (1) Discussions of current and historical issues in physics, the role of science in both history and modern society, and the challenges of integrating science and faith.

PHY 198 Physics Research (1-4) Prerequisite: PHY 025. Students will work closely with faculty on original research and/or senior thesis.

PHY 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Political Science

Professors J. Covington, T. Knecht (chair)
Assistant Professor K. Bryant

***D*escription of the Major**. The political science major helps students understand the organization and functions of political systems, institutions, and processes in the United States and the global community. Within the major, students may select among four different tracks of study: standard, pre-law, international affairs, or international security and development. The political science minor is designed for students in other majors to consider the political perspectives of their chosen field as well as alternative careers. The department is committed to helping students become politically competent citizens in a world characterized by political, social, cultural, religious, and economic diversity.

***D*istinctive Features**. The political science department faculty combines theory and political practice. They offer a balanced curriculum, research experiences, service learning, field study, and close student/faculty interaction. Students are encouraged to develop their Christian faith and to take seriously the responsibility of living that faith in the context of the public square.

Students put their classroom insights to use in career-oriented internships in Santa Barbara in legislative offices, private legal offices, the district attorney's office, city administration, regional planning agencies, police departments, occasional political campaigns, and various social service agencies.

Students may pursue similar internships through several of Westmont's off-campus programs. In addition, the political science department's summer internship program allows students to pursue extraordinary internship opportunities virtually anywhere in the world. Pi Sigma Alpha, the National Political Science Honor Society, stimulates scholarship and intellectual interest in political science. Westmont's chapter honors academic excellence among political science majors and provides a forum for student discussion and guest lectures.

***C*areer Choices**. Political science majors have pursued careers in many fields, including the law, national politics, diplomacy, business, the non-profit sector, investment analysis, teaching, management consulting, journalism, local government administration, health policy administration, congressional staff, foreign intelligence, international development, real estate, computer sales, information technology corporate public affairs, the ministry, and missions.

Requirements for a Major: 48-68 units

Standard Track: 48 Units

Required Lower-Division Courses: 16 units

POL 010 American Government (4)
POL 020 International Politics (4)
POL 030 Political Theory and Ideology (4)
POL 040 Empirical Political Research (4)

Required Upper-Division Courses: 28 units

American Government and Politics: Two of the following (8)
- POL 103 Governing: Doing Public Policy (4)
- POL 104 Constitutional Law (4)
- POL 105 The Presidency (4)
- POL 106 Presidential Election Politics (4)
- POL 107 Voting Behavior (4)
- POL 108 Congress (4)
- POL 109 Political Parties and Interest Groups (4)
- POL 110 American Public Opinion (4)
- POL 111 American Foreign Policy (4)
- POL 113 Race and Politics (4)
- POL 141 Politics of Sport (4)
- POL 142 Politics of Film (4)

International Relations and Comparative Politics: Two of the following (8)
- POL 112 International Organizations and Law (4)
- POL 120 Democracies and Dictators (4)
- POL 121 Conflict and Peacebuilding (4)
- POL 124 International Development (4)
- POL 125 International Political Economy (4)
- POL 127 Environmental Politics (4)

Political Theory: Two of the following (8)
- POL 130 Classical Political Theory (4)
- POL 131 Modern Political Theory (4)
- POL 132 American Political Thought (4)
- POL 133 Contemporary Political Theory (4)
- POL 140 Christianity and Politics (4)

Internship
- POL 190 Internship (4)

Electives: 4 units

Upper-Division POL Electives Course (4) in consultation with major advisor

B. Pre-Law Track: 64 units

Required Lower-Division Courses: 16 units

POL 010 American Government (4)
POL 020 International Politics (4)
POL 030 Political Theory and Ideology (4)
POL 040 Empirical Political Research (4)

Required Upper-Division Courses: 32 units

Both of the following: (8) (these courses may not double-count with the subfield requirements listed below)
- POL 104 Constitutional Law (4)
- POL 190 Internship (law related) (4)

Two of the following: (these courses may double-count with the subfield requirements listed below)
- POL 108 Congress (4)
- POL 112 International Organizations and Law (4)
- POL 132 American Political Thought (4)
- POL 133 Contemporary Political Theory (4)

American Government and Politics: Two of the following (8)
- POL 103 Governing: Doing Public Policy (4)
- POL 106 Presidential Election Politics (4)
- POL 107 Voting Behavior (4)
- POL 108 Congress (4)
- POL 109 Political Parties and Interest Groups (4)
- POL 110 American Public Opinion (4)
- POL 111 American Foreign Policy (4)
- POL 113 Race and Politics (4)
- POL 141 Politics of Sport (4)

International Relations and Comparative Politics: Two of the following (8)
- POL 112 International Organizations and Law (4)
- POL 120 Democracies and Dictators (4)
- POL 121 Conflict and Peacebuilding (4)
- POL 124 International Development (4)
- POL 125 International Political Economy (4)
- POL 127 Environmental Politics (4)

Political Theory: Two of the following (8)
- POL 130 Classical Political Theory (4)
- POL 131 Modern Political Theory (4)
- POL 132 American Political Thought (4)
- POL 133 Contemporary Political Theory (4)
- POL 140 Christianity and Politics (4)

Requirements from outside POL Department: 16 units

Communication: Two of the following (8)
- COM 015 Public Speaking (4)
- COM 130 Argumentation and Advocacy (4)
- ENG 104 Modern Grammar and Advanced Composition (4)

Theory and Analysis: One of the following (4)
PHI 012 Critical Reasoning and Logic (4)
PHI 104 Ethics (4)
PHI 133 Political Philosophy (4)
Specific Emphases: One of the following (4)
COM 133 Conflict and Reconciliation (4)
EB 010 Principles of Microeconomics (4)
EB 105 Business Law (4)
HIS 178 California History (4)

Recommended Course:

POL 130 Classical Political Theory (4)

C. International Affairs Track: 68 units

Required Lower-Division Courses: 16 units

POL 010 American Government (4)
POL 020 International Politics (4)
POL 030 Political Theory and Ideology (4)
POL 040 Empirical Political Research (4)

Required Upper-Division Courses: 28 units

POL 111 American Foreign Policy (4)
POL 190 Internship (4) (international or foreign policy related in an off-campus/study abroad program approved by the major advisor)
American Government and Politics: One of the following (4)
POL 103 Governing: Doing Public Policy (4)
POL 104 Constitutional Law (4)
POL 105 The Presidency (4)
POL 106 Presidential Election Politics (4)
POL 107 Voting Behavior (4)
POL 108 Congress (4)
POL 109 Political Parties and Interest Groups (4)
POL 110 American Public Opinion (4)
POL 113 Race and Politics (4)
POL 141 Politics of Sport (4)
International Relations and Comparative Politics: Two of the following (8)
POL 112 International Organizations and Law (4)
POL 120 Democracies and Dictators (4)
POL 121 Conflict and Peacebuilding (4)
POL 124 International Development (4)
POL 125 International Political Economy (4)
POL 127 Environmental Politics (4)
Political Theory: Two of the following (8)
POL 130 Classical Political Theory (4)
POL 131 Modern Political Theory (4)
POL 132 American Political Thought (4)
POL 133 Contemporary Political Theory (4)
POL 140 Christianity and Politics (4)

POL Electives: 4 units

Upper-Division POL Elective Course (4) in International Relations and Comparative Politics

Requirements from outside POL Department: 20 units

AN 001 Introduction to Anthropology (4)
EB 011 Principles of Macroeconomics (4)
Foreign Language (8) with approval of major advisor
One of the following: (4)
HIS 145 The Making of Modern Europe (4)
HIS 162 Modern and Contemporary Latin America (4)
HIS 082 History of the Israeli-Palestinian Conflict through Film (4)
HIS 182 History of the Israeli-Palestinian Conflict (4)
(Other HIS courses may be approved by major advisor)

Recommended Courses:

EB 010 Principles of Microeconomics (4)
RS 142 World Religions (4)

D. International Security and Development Track: 68 units

Required Lower-Division Courses: 16 units

POL 010 American Government (4)
POL 020 International Politics (4)
POL 030 Political Theory and Ideology (4)
POL 040 Empirical Political Research (4)

Required Upper-Division Courses: 36 units

International Relations and Comparative Politics: One of the following (4)
POL 112 International Organizations and Law (4)
POL 120 Democracies and Dictators (4)
International and Comparative Political Economy: One of the following (4)
POL 124 International Development (4)
POL 125 International Political Economy (4)
American Government and Politics: Two of the following (8)
POL 103 Governing: Doing Public Policy (4)
POL 104 Constitutional Law (4)
POL 105 The Presidency (4)
POL 106 Presidential Election Politics (4)
POL 108 Congress (4)
POL 111 American Foreign Policy (4)
POL 113 Race and Politics (4)
Political Theory: Two of the following (8)
POL 130 Classical Political Theory (4)
POL 131 Modern Political Theory (4)
POL 133 Contemporary Political Theory (4)
POL 140 Christianity and Politics (4)

POL 190 Internship (4) (international development or security related in an off-campus/study abroad program approved by the major advisor)
Foreign Language (8) with approval of major advisor

POL Electives: 4 units

Upper-Division POL Elective Course (4) in International Relations / Comparative Politics

Requirements from outside POL Department: 12 units

Two of the following: (8)
EB 010 Principles of Microeconomics (4)
EB 011 Principles of Macroeconomics (4)
EB 104 World Poverty and Economic Development (4)
EB 105 Business Law (4)
EB 106 Environmental and Natural Resource Economics (4)
One of the following: (4)
AN 001 Introduction to Cultural Anthropology (4)
AN 135 Gender in Cross-Cultural Perspective (4)
AN 140 Food Systems (4)
RS 142 World Religions (4)

Requirements for a Minor: 24 units

Required Lower-Division Course: 12 units

POL 010 American Government (4)
POL 020 International Politics (4)
POL 030 Political Theory and Ideology (4)

Other Required Courses: 12 units

One of the following: (4)
POL 103 Governing: Doing Public Policy (4)
POL 104 Constitutional Law (4)
POL 105 The Presidency (4)
POL 107 Voting Behavior (4)
POL 108 Congress (4)
POL 109 Political Parties and Interest Groups (4)
POL 110 American Public Opinion
POL 113 Race and Politics (4)
One of the following: (4)
POL 112 International Organizations and Law (4)
POL 120 Democracies and Dictators (4)
POL 121 Conflict and Peacebuilding (4)
POL 124 International Development (4)
POL 125 International Political Economy (4)
POL 127 Environmental Politics (4)

One of the following: (4)
POL 130 Classical Political Theory (4)
POL 131 Modern Political Theory (4)
POL 132 American Political Thought (4)
POL 133 Contemporary Political Theory (4)
POL 140 Christianity and Politics (4)

Lower-Division Course Descriptions

POL 010 American Government (4) The basic concepts, background, organization, functions, and processes of the United States political system.

POL 020 International Politics (4) An introduction to the study of what produces conflict and cooperation in the international system, including attention to historical, social, economic, religious and political factors that impact international peace, security, and development.

POL 030 Political Theory and Ideology (4) An introduction to the project of political theory, locating this study within a broader framework of Christian thought and the liberal arts. The course critically examines the features and philosophical underpinnings of major political ideologies, including liberalism, conservatism, socialism, anarchism, fascism, nationalism, democracy, ideologies of gender and sexuality, race, the environment, and radical Islam.

POL 040 Empirical Political Research (4) An introduction to empirical methods and quantitative analysis in political research: applications of philosophy of science, survey and alternative methods of data collection, basic statistical analysis, reporting results, and ethical issues associated with research using human participants.

Upper-Division Course Descriptions

POL 103 Governing: Doing Public Policy (4) Prerequisites: POL 010 and POL 040. A study of how federal, state, and local governments address key issues, including climate change, health care, fiscal policy, and water rights.

POL 104 Constitutional Law (4) An introduction and analysis of the major cases, themes, theories and problems in American Constitutional Law, illuminated by comparative constitutional perspectives and including a trial simulation project; major course themes include: federalism, judicial power, separation of powers, foreign affairs, civil rights, and civil liberties.

POL 105 The Presidency (4) Prerequisites: POL 010 and POL 040. An analysis of the American presidency, including its powers, leadership styles, policy-making roles, and current trends.

POL 106 Presidential Election Politics (4) An analysis of how Americans choose their President, including the nomination process, the campaign, electoral behavior and outcomes, and an evaluation of how well the system works, including proposals for reform. (Offered only in presidential election years.)

POL 107 Voting Behavior (4) Prerequisites: POL 010 and POL 040. This course explores a range of topics related to political participation in the United States. While focusing on voting behavior, it examines voting in the context of political participation considered more broadly, examining a variety of relevant participatory factors. The majority of the course explores major patterns, explanations, changes and themes in how Americans participate in politics.

POL 108 Congress (4) The organization and processes of the United States Congress and its relationships with other actors in the political system and home constituencies.

POL 109 Political Parties and Interest Groups (4) Prerequisites: POL 010 and POL 040. This course examines political parties and interest groups as two conduits that link citizens to their governments. Students will assess the theoretical and empirical literature to determine how well parties and interest groups fulfill their roles as representative intermediaries. Although much of the course is focused on the American political system, students will also examine the influence of parties and interest groups in other democracies. This is a service learning course in which students are expected to volunteer with a political party or interest group of their choice.

POL 110 American Public Opinion (4) Prerequisites: POL 010 and POL 040. This course examines the beliefs, opinions, and ideology of the American public. Students explore such issues as the measurement of public opinion, the process by which individuals acquire their beliefs and identity, the influence of mass opinion on public policy, and the question of whether there is a unique American character. Although most of the course will focus on the United States, we will also look at public opinion in a comparative perspective. This service learning course offers students the opportunity to design, implement, and analyze their own survey.

POL 111 American Foreign Policy (4) Prerequisites: POL 010, POL 020, and POL 040. The United States in world politics. The policy process, its assumptions, objectives, and decision-making processes and strategies; the influence on American policy of changing trends in the international environment and the interaction between domestic and external policies.

POL 112 International Organizations and Law (4) Prerequisite: POL 020. Political Science majors and minors only. Fee required. Advanced study of international politics, law and organizations including a case study and simulation of the United Nations system at the National Model UN in New York City.

POL 113 Race and Politics (4) This course examines the intersection of race, ethnicity, and politics. Topics covered include ideology, group identity, socialization, public opinion, voting patterns, political participation, political representation, and public policy.

POL 120 Democracies and Dictators (4) Prerequisite: POL 020. An advanced study of political institutions from a comparative perspective. This course will examine variations in democratic and authoritarian regimes, and the implications of these regimes for domestic and international politics. Topics include representation, political parties, judicial systems, federalism, economic policy, environmental policy, and foreign policy. This course also explores processes and trends associated with regime transition and democratization.

POL 121 Conflict and Peacebuilding (4) Prerequisites: POL 020 and POL 040. A survey on the causes of global conflict (broadly defined) and related peacebuilding efforts. The course will analyze various theoretical explanations of conflict from an international relations perspective (realism, liberalism, constructivism, critical theory), as well as an explanation of conflict at various levels of analysis. The course also explores a variety of peacebuilding strategies, including crisis management, deterrence, mediation, intervention, and reconciliation.

POL 124 International Development (4) Prerequisites: POL 020 and POL 040. An examination of international development and the North-South gap within a political economy and human development perspective, focusing on the main arguments about the two faces of development (national and international) and the contending theories and strategies in world development.

POL 125 International Political Economy (4) Prerequisites: POL 020 and POL 040. This course emphasizes the study of international trade, global finance, and foreign investment. The course surveys historical developments in political economy and competing frameworks in the study of IPE. Advanced topics include issues such as the role of regional organizations, currency crises, economic sanctions, and cryptocurrencies.

POL 127 Environmental Politics (4) Prerequisite: POL 020 or ENV 001. This course provides an introduction to the study of the global environment. It emphasizes current political controversies surrounding environmental policies at the domestic and international level, as well as pertinent actors, institutions, and laws associated with environmental politics. Issues of environmental justice are addressed throughout the course.

POL 128 Conflict and Change in the Modern Middle East (4) This course will be offered on the Westmont in Cairo off-campus program. It will introduce students to the complex geo-political alignments that shape the modern Middle East. In particular, the Arab Spring and the Israeli-Palestinian conflict will provide case studies of how states engage with international actors and how in turn states conform to or resist international expectations.

POL 130 Classical Political Theory (4) Prerequisites: POL 030 and POL 040. An in-depth survey of ancient and medieval political philosophy, focusing on the relationship between politics and virtue. Centered in the Western philosophical tradition of Greek, Roman, and Christian thinkers (Plato, Aristotle, Augustine, Aquinas, etc.), this course also introduces elements of classical Jewish and Islamic political thought.

POL 131 Modern Political Theory (4) Prerequisites: POL 030 and POL 040. A study in the politics of freedom, particularly theories of limited government central to democracy. The course critically examines the shift away from the classical emphasis on virtue (Machiavelli), social contract theories and liberalism (Hobbes, Locke, Rousseau), communism (Marx and Engels), and early contributions to feminist theory (Wollstonecraft, J.S. Mill).

POL 132 American Political Thought (4) Prerequisites: POL 010 and POL 030. An in-depth introduction to central features of American political theory. The course proceeds thematically, using a broad range of primary sources to explore the development of ideas and their relevance to contemporary thought and practice. Key areas of focus include rights, equality, religion, constitutionalism, federalism, and the separation of powers.

POL 133 Contemporary Political Theory (4) Prerequisites: POL 030 and POL 040. A survey of the political thought of the twentieth and twenty-first centuries, exploring the problematic relationship between post-modernity and political theory. Particular attention is given to contemporary theories of liberalism and democracy.

POL 140 Christianity and Politics (4) Prerequisite: junior standing. Examines the interrelation of Christian faith and politics, including scriptural foundations, historical political theology, distinctive features of various Christian traditions, and contemporary patterns of Christians' political behavior.

POL/KNS 141 Politics of Sports (4) This cross-listed course examines the intersection of politics and sports. Because sports occupy an important place in most cultures, it is of little surprise that they are also highly politicized. Governments not only regulate athletics, but have used sports both as a tool of political socialization and as a means to advance the national interest in international affairs.

POL 142 Politics of Film (4) This course examines American politics through the medium of film. Movies provide an interesting perspective on how we view political, economic, social, and cultural issues. This course will pair a "Film-of-the-Week" with readings that provide historical and theoretical context.

POL 150 Seminar (4) Prerequisite: junior standing. Advanced study of selected issues in political science.

POL 190 Internship (4-8) Prerequisite: consent of instructor. Supervised internship in government agencies, law offices, nonprofit organizations, and NGOs (nongovernmental organizations).

POL 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Psychology

Professors A. Gurney, S. Rogers, R. See (chair)
Associate Professor G. Park
Assistant Professor S. Lawrie

Description of the Major. Psychology is the science that deals with the behavioral and cognitive functioning of individuals. It includes both basic scientific and applied aspects, and it encompasses a wide variety of explanatory and descriptive levels ranging from neurophysiological to social. All three degree options in psychology at Westmont encourage students to not only sample broadly from across these aspects and levels, but to also focus in those areas of special interest.

All degree options incorporate (a) lower-division coursework in methodological and theoretical foundations, (b) lower-division coursework in allied disciplines, (c) core upper-division lecture and laboratory courses in specific areas of psychology, and (d) a senior capstone experience involving practicum, individual research, or both. Students who intend to pursue an applied field of psychology should take practicum. Those who expect to pursue graduate school are encouraged to take research and practicum, depending on their interests.

Distinctive Features. The department provides several types of training and opportunities to enrich students' academic and professional development, as well as help them achieve their career goals. Students may major in psychology by choosing one of three degree options: a Bachelor of Arts degree, allowing greater flexibility to major or minor in other disciplines; a Bachelor of Science degree, broadly emphasizing the various research disciplines of psychology; and the Behavioral Neuroscience track, focusing particularly on the neural bases of behavior. Both of the latter options emphasize psychology's connections with biology and chemistry. Each of these three options is compatible with a wide variety of career choices, including clinical and counseling work, health sciences and biomedical research, basic and applied research in psychology and related fields, and many others.

There are several academic, professional, and financial opportunities available to students in the psychology major. The capstone experience, which is designed to integrate knowledge and skills gained throughout the curriculum, allows students to focus on areas of particular interest. In practicum, for example, students can experience the kind of career work they may wish to pursue. Psychology majors at Westmont can also engage in original research with professors. Faculty members present their research and insights at departmental and divisional colloquia. Students are also encouraged to attend and present their research at psychological conferences, and summer research opportunities are often available with some financial support. Additional opportunities include the Westmont College chapter of Psi Chi, the international honor society in psychology, sponsored speakers, professional activities, and service to the community. The department presents the Willard F. Harley Outstanding Student Award to a graduating senior. Finally, for interested students, part-time positions are available to assist professors or work within the department.

The psychology department encourages its majors to participate in an off-campus program before the end of the junior year. Off-campus experiences may include participation in a Westmont-sponsored program in which the student completes general

education requirements, electives, and, in some cases, major requirements. Another option is to enroll for a semester in Westmont Downtown in Santa Barbara, where psychology students can earn up to 4 units of internship credit (PSY 190). A third option is to spend a semester at a university in another country, taking a combination of psychology, general education, and elective courses. Students should work closely with their academic advisors when planning for a semester away from the Westmont campus in order to complete their graduation and major requirements in a timely manner and in the proper sequence.

Career Choices. A bachelor's degree in psychology is desirable for anyone seeking versatile training with primary interests that involve human behavior and critical thinking. The major provides the essential foundation for graduate studies or many other post graduate degree options. Career opportunities at this level include clinical and counseling psychology, teaching, consulting, and research in areas of psychology such as social, developmental, cognitive, neuroscience, psychological testing, behavioral medicine, industrial/organizational, sports, or health psychology, just to name a few. A psychology major is also an excellent choice to prepare one for a career in teaching, ministry, law and law enforcement, social work, public relations, youth work, personnel management, communications, recreation, rehabilitation, emergency services, advertising, administration, data analysis, Big Tech, and various health industries.

Requirements for a B.A. Major: approx. 48 units

Required Lower-Division Courses: 3 courses

(To be completed by the end of the sophomore year.)
MA 005 Introduction to Statistics (4)
PSY 001 General Psychology (4)
PSY 013/013L Research Methods in Psychology & Lab (4)

Recommended: Courses from related fields; biology, anatomy and physiology; sociology; additional statistics or mathematics; computer science.

Required Upper-Division Courses: for a minimum of 36 units

PSY 111 History and Systems of Psychology (4)
One course from the following: for a minimum of 4 units
- PSY 120/120L Cognitive Psychology and Lab (4)
- PSY 123/123L Clinical Neuropsychology and Lab (4)
- PSY 124/124L Sensation and Perception and Lab (4)
- PSY 125/125L Behavioral Neuroscience and Lab (4)

Courses from the following: for a minimum of 8 units
- PSY 115 Child Development: Infancy through Adolescence (4)*
- PSY 117 Lifespan Development (4)*
- PSY 122 Social Psychology (4)
- PSY 131 Abnormal Psychology (4)
- PSY 132 Cultural Psychology (4)
- PSY 140 Personality (4)
- PSY 141 Fundamentals of Clinical and Counseling Psychology (4)

One of the following Capstone options: for a minimum of 4 units
PSY 196 Capstone Senior Practicum in Psychology (4)
PSY 197, 198 Capstone Senior Research in Psychology I, II (2, 2)
PSY 199 Major Honors (4)
Additional Upper-Division PSY Electives: for a minimum of 16 units**

* Either PSY 115 or PSY 117 may be taken; both cannot be taken for credit in the major.
**No more than 4 units of PSY 192 can be applied to the major

Requirements for a B.S. Major: approx. 56 units

Required Lower-Division Courses: 3 courses

(To be completed by the end of the sophomore year.)
MA 005 Introduction to Statistics (4)
PSY 001 General Psychology (4)
PSY 013/013L Research Methods in Psychology and Lab (4)

Required Upper-Division PSY Courses: for a minimum of 32 units

PSY 111 History and Systems of Psychology (4)
One of the following Capstone options: for a minimum of 4 units
PSY 197, 198 Capstone Senior Research in Psychology I, II (2, 2)
PSY 199 Major Honors (4)
Courses from the following: for a minimum of 8 units
PSY 120/120L Cognitive Psychology and Lab (4)
PSY 123/123L Clinical Neuropsychology and Lab (4)
PSY 124/124L Sensation and Perception and Lab (4)
PSY 125/125L Behavioral Neuroscience and Lab (4)
Courses from the following: for a minimum of 8 units
PSY 115 Child Development: Infancy through Adolescence (4)*
PSY 117 Lifespan Development (4)*
PSY 122 Social Psychology (4)
PSY 131 Abnormal Psychology (4)
PSY 132 Cultural Psychology (4)
PSY 140 Personality (4)
PSY 141 Fundamentals of Clinical and Counseling Psychology (4)
Additional Upper-Division PSY Electives: (for a minimum of 8 units)**

Required Courses from Other Disciplines: 3 courses

One of the following courses:
MA 008 Functions and Models (4)
MA 009 Calculus I (4)
MA 010 Calculus II (4)
MA 015 Discrete Mathematics (4)

Two of the following courses: **for a minimum of 8 units**
BIO 005 General Biology I (4)
BIO 006 General Biology II (4)
BIO 011 Human Anatomy (4)
BIO 012 Human Physiology (4)
CHM 001 Introductory General Chemistry (4)
CHM 005 General Chemistry I (4)
CHM 006 General Chemistry II (4)
PHY 011 Physics for Life Sciences I (4)***
PHY 013 Physics for Life Sciences II (4)***
PHY 014 Physics for Life Sciences Laboratory (1)
PHY 021 General Physics I (4)****
PHY 023 General Physics II (4)****
PHY 024 General Physics Laboratory II (1)

* Either PSY 115 or PSY 117 may be taken; both cannot be taken for credit in the major.
**No more than 4 units of PSY 192 can be applied to the major
***If PHY 011 or PHY 013 is taken, PHY 014 must also be taken to complete the lab requirement.
**** If PHY 021 or PHY 023 is taken, PHY 024 must also be taken to complete the lab requirement

Requirements for a B.S. Major, Behavioral Neuroscience Track: approx. 64 units

Required Lower-Division Courses: 3 courses

(To be completed by the end of the sophomore year.)
MA 005 Introduction to Statistics (4)
PSY 001 General Psychology (4)
PSY 013/013L Research Methods in Psychology and Lab (4)

Required Upper-Division PSY Courses: for a minimum of 32 units

PSY 111 History and Systems of Psychology (4)
PSY 125/125L Behavioral Neuroscience and Lab (4)
One of the following Capstone options: for a minimum of 4 units
PSY 197, 198 Capstone Senior Research in Psychology I, II (2, 2)
PSY 199 Major Honors (4)
Courses from the following: for a minimum of 4 units
PSY 120/120L Cognitive Psychology and Lab (4)
PSY 123/123L Clinical Neuropsychology and Lab (4)
PSY 124/124L Sensation and Perception and Lab (4)
Courses from the following: for a minimum of 8 units
PSY 115 Child Development: Infancy through Adolescence (4)**
PSY 117 Lifespan Development (4)**
PSY 122 Social Psychology (4)
PSY 131 Abnormal Psychology (4)
PSY 132 Cultural Psychology (4)
PSY 140 Personality (4)

PSY 141 Fundamentals of Clinical and Counseling Psychology (4)
Additional Upper-Division PSY Electives: (for a minimum of 8 units)**

Required Courses from Other Disciplines: 5 courses

BIO 005 General Biology I (4)
BIO 006 General Biology II (4)
CHM 005 General Chemistry I (4)
CHM 006 General Chemistry II (4)
MA 009 Calculus I (4)

*PSY 197/198/199 projects must be on approved topics in behavioral neuroscience.

** Either PSY 115 or PSY 117 may be taken; both cannot be taken for credit in the major.

**No more than 4 units of PSY 192 can be applied to the major

Requirements for a Minor: 20 units

Required Lower-Division Courses: 2 courses

MA 005 Introduction to Statistics (4)
PSY 001 General Psychology (4)

Required Upper-Division Courses: for a minimum of 12 units

At least 3 upper-division courses, selected in consultation with the student's advisor, but not including any course numbered above PSY 189.

Lower-Division Course Descriptions

PSY 001 General Psychology (4) Survey of major areas of psychology with emphasis on basic concepts, theories, and facts of behavior and cognitive processes.

PSY 013 Research Methods in Psychology (4) Prerequisites: PSY 001 and MA 005. The logic of scientific investigation with an examination of research principles, designs, and reports; experimentation with human and animal subjects; and an original research project. Laboratory section required.

Upper-Division Course Descriptions

PSY 111 History and Systems of Psychology (4) Prerequisites: PSY 013, PHI 006 or IS 010H, and senior standing or permission of instructor. Background of modern psychology, development of various schools, and appreciation of the complexity of the discipline today.

PSY 115 Child Development: Infancy through Adolescence (4) Prerequisite: PSY 001. (Not open to students with First Year class level standing.) Human development from conception through adolescence. Considers social, psychological, cognitive, and biological processes.

PSY 117 Lifespan Development (4) Prerequisite: PSY 001. (Not open to students with First Year class level standing.) Human development from conception through death. Considers social, psychological, cognitive, and biological processes.

PSY 118 Marriage 101: Learning to Love Well and Build Kingdom Relationships (4) Prerequisite: Junior Standing. Examines joys, intricacies, and problems in close, committed relationships, particularly marriage. Considers compatibility, relational challenges, marital satisfaction, and Biblical meaning of marriage.

PSY 120 Cognitive Psychology (4) Prerequisites: PSY 001, MA 005, and; PSY 013. Theory and research on the nature of memory, concept formation, language production and comprehension, and problem solving. Laboratory section required.

PSY 122 Social Psychology (4) Prerequisite: PSY 001. Theory and research on social bases of behavior. Topics of personal and social relevance: social cognition, attitudes, prejudice, aggression, group influence, conformity, and obedience.

PSY 123 Clinical Neuropsychology (4) Prerequisites: PSY 001, MA 005, and PSY 013. Neuropsychological syndromes, neuropsychological assessment, and principles of neuroanatomy and brain-behavior relationships. Laboratory section required.

PSY 124 Sensation and Perception (4) Prerequisites: PSY 001, MA 005, and PSY 013. Research and theories of audition, vision, taste, smell, and somesthesis; speech, music, pain, time, color, space, and motion perception. Laboratory section required.

PSY 125 Behavioral Neuroscience (4) Prerequisites: PSY 001, MA 005, and PSY 013. Analysis of behavior and cognition as a function of neurophysiological processes. Laboratory section required.

PSY 131 Abnormal Psychology (4) Prerequisite: PSY 001. Majors and minors have first priority. Mental and emotional disorders, their symptomatology, etiology, classification, and methods of treatment.

PSY 132 Cultural Psychology (4) Prerequisite: PSY 001. Explores the influence of cultural norms on cognition, behavior, emotions, and health. Considers the nature and extent of cultural differences and similarities, how cultural norms are transmitted, and how to interpret and evaluate the generalizability of research findings across cultures.

PSY 140 Personality (4) Prerequisites: PSY 001 and junior standing. Scientific definition and assessment of personality, major theories and current research areas.

PSY 141 Fundamentals of Clinical and Counseling Psychology (4) Prerequisites: PSY 001, PSY 131, and junior standing or permission of instructor. Foundations and principles of individual and group helping processes.

PSY 150 Topics in Psychology (2-4) Prerequisites: PSY 001; additional, depending on the specifics of the course offered in a given semester. See individual course announcements for specific content and prerequisite information.

PSY 190 Individual Internship in Psychology (1-4) Prerequisite: PSY 001 or consent of instructor. Psychology-related field work in local placements (see IS 190 for description of Off-Campus Program internship opportunities). May not be taken concurrently with PSY 196.

PSY 192 Individual Research in Psychology (1-4) Prerequisite: Consent of instructor. Laboratory or field research with a faculty member. Students may be involved in any or all of the following: conducting literature reviews, implementing research procedures, analyzing data, or writing up results. Only 4 units of PSY 192 can be applied to the major, and a maximum of 12 units of PSY 192 can be applied to a student's overall degree.

PSY 196 Capstone Senior Practicum in Psychology (4) Prerequisites: PSY 001, PSY 131, PSY 141, and senior standing. Field work in local mental health facilities, schools, probation and social service agencies, or research facilities.

PSY 197 Capstone Senior Research in Psychology I (2) Prerequisites: PSY 001, PSY 013, upper division lab course, and senior standing. Development of a professional research proposal that likely includes preliminary data collection. In-depth training in doing literature searches and reviews, applying research ethics, selecting experimental designs, and thinking critically in research.

PSY 198 Capstone Senior Research in Psychology II (2) Prerequisites: PSY 001, PSY 013, PSY 197, and senior standing. Continuation of PSY 197 with a focus on carrying out the research project proposed in PSY 197, and writing and submitting a professional level report for presentation.

PSY 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Religious Studies

Robert H. Gundry Chair of Biblical Studies, Old Testament, Professor S. Richter
Professors C. Farhadian, C. Reeder, H. Rhee, T. Work
Associate Professors H. Beers, D. Emanuel
Scholar-in-Residence R. Gundry

***D*escription of the Major**. The Religious Studies major at Westmont College offers the coursework and experiences students need to understand the Christian tradition in conversation with other traditions. The foundation of the program is knowledge of the Bible, to which the faculty are committed as inspired and authoritative. Religious studies majors develop biblical and theological literacy, cultivate skills in interpretation, grow in theological judgment, and learn to celebrate the rich heritage of the Church in all its cultural contexts. Electives allow for advanced work in biblical studies, Greek and Hebrew, theology, Christian history, world religions and mission. Opportunities for study abroad and internships in support of the major abound.

***D*istinctive Features**. The major combines a 28-unit core with 20 units of elective credit. Majors may choose to concentrate in biblical interpretation, theological and historical studies, or world religions and Christian mission. The department welcomes religious studies minors and double majors, and we encourage students to pursue off-campus programs in a range of settings including the Middle East, Asia and San Francisco. Internship credit is available for local church ministries and internships.

***C*areer Choices**. Some majors go on to graduate programs in religious studies; some are called into Christian ministry. Westmont religious studies majors are well prepared for the best seminary programs in the country. Our graduates also pursue careers in fields as diverse as education, publishing, business, linguistics, politics, law and social work. In each case a firm understanding of religious texts, traditions and values allows them to make a unique contribution to their field. Regardless of career path, religious studies majors are equipped to play strong leadership roles within the Christian community and beyond.

Requirements for a Major: 48 units

Required Core: 28 units

RS 119 Early and Medieval Christianity (4)
RS 120 Reformation and Modern Christianity (4)
RS 142 World Religions (4)
RS 159 Christian Mission (4)
RS 180 Senior Seminar (4)

Old Testament: *one of the following* (4)
RS 101 Pentateuch (4)
RS 102 Poetic and Wisdom Literature of the Old Testament (4)
RS 106 The Old Testament in Ancient Near Eastern Context (4)
RS 108 Prophetic Literature of the Old Testament (4)
RS 124 Old Testament Theology (4)
RS 154 History of Israel (4)
New Testament: *one of the following* (4)
RS 110 Jesus in the Gospels (4)
RS 111 Paul and His Legacy (4)
RS 113 The Church in the New Testament (4)
RS 114 The World of the New Testament (4)
RS 116 The Apocalypse (4)

Electives: 20 additional units

Religious Studies courses not already taken, including internships and major honors, as well as courses from Hebrew or Greek.

Students are encouraged to concentrate elective coursework in one of the following three areas:

A. Biblical Interpretation

Old Testament
RS 101 Pentateuch (4)
RS 102 Poetic and Wisdom Literature of the Old Testament (4)
RS 104 Topics in Old Testament Studies (4)
RS 108 Prophetic Literature of the Old Testament (4)
RS 124 Old Testament Theology (4)
RS 154 History of Israel (4)

New Testament
RS 107 Topics in New Testament Studies (4)
RS 110 Jesus in the Gospels (4)
RS 111 Paul and His Legacy (4)
RS 113 The Church in the New Testament (4)
RS 116 The Apocalypse (4)

Biblical Contexts
RS 106 The Old Testament in Ancient Near Eastern Context (4)
RS 114 The World of the New Testament (4)
RS 155 Geography, History and Religions of the Holy Land (off-campus)

Biblical Languages
GRK 001 Elementary Greek I (4)
GRK 002 Elementary Greek II (4)
GRK 101 Intermediate Greek I (4)
GRK 102 Intermediate Greek II (4)
GRK 151 Advanced Greek Reading (4)
HB 001 Elementary Hebrew I (4)
HB 002 Elementary Hebrew II (4)
HB 101 Intermediate Hebrew (4)

RS 190 Religious Studies Internship (4)
RS 199 Major Honors

B. Theology and History

Systematic Theology
- RS 100 Foundations of Spiritual Formation (4)
- RS 126 Topical Theology (4)
- RS 127 Theological Formation (4)
- RS 129 Interdisciplinary Theology (4)
- RS 131 Theology Seminar (4)
- RS 132 Theology in Film (4)
- RS 134 Gender in Theological Perspective (4)

Philosophical Theology
- RS 103 Christian Apologetics (4)
- RS 130/PHI 130 Philosophical Theology (4)

Historical Theology and Christian History
- RS 119 Early and Medieval Christianity (4)
- RS 120 Reformation and Modern Christianity (4)
- RS 133/ART 133 Art, Theology and Worship (4)
- RS 148/EB 148 Theology and Economics of Wealth and Poverty (4)
- RS 150 Theological History Seminar (4)
- RS 151 History of World Christianity (4)
- RS 157 History of Christian Mission (4)

RS 190 Religious Studies Internship (4)
RS 199 Major Honors

C. World Religions and Christian Mission

RS 137 Asian Christianity (4)
RS 138 Judaism (4)
RS 139 The World of Islam (4)
RS 157 History of Christian Mission (4)
RS 160 Globalization: Self, Religions, Society (4)
RS 162 Religion and Filmmaking (4)
RS 163/PHI 163 Philosophy of Religion (4)
RS 165 Religions in Context (topic varies with location) (4)

Students may petition to have up to 8 units from the following list count as RS electives.
- AN 150 Cross-Cultural Communication (4)
- BIO 197 Biology and Faith (4) (senior standing)
- HIS 134 Reformation Spirituality (4)
- IS 190 Off-Campus Program Internship (4, 8 by petition)
- IS 194 Independent Study (4; Westmont in San Francisco)
- MU 122 Music in the Worshipping Church (4)
- POL 140 Christianity and Politics (4)
- SOC 120/AN 120 Religion and Society (4)

Requirements for a Minor: 20 units

Choose one of the following (4)

RS 119 Early and Medieval Christianity (4)
RS 120 Reformation and Modern Christianity (4)
RS 151 History of World Christianity (4)

Additional Hebrew, Greek or RS upper-division electives (16)

Requirements for Biblical Languages Minor: 20 units

20 units from the following:

GRK 001 Elementary Greek I (4)
GRK 002 Elementary Greek II (4)
GRK 101 Intermediate Greek I (4)
GRK 102 Intermediate Greek II (4)
HB 001 Elementary Hebrew I (4)
HB 002 Elementary Hebrew II (4)
HB 101 Intermediate Hebrew (4)

At least eight units in each language are recommended.
Four units can count toward a major in Religious Studies.

Lower-Division Course Descriptions

GRK 001, 002 Elementary Greek I, II (4,4) Basic grammar and beginning reading in the Greek New Testament.

HB 001, 002 Elementary Hebrew I, II (4,4) Basic grammar and beginning reading in the Hebrew Old Testament. Offered every other year.

RS 001 Introduction to Old Testament (4) A survey of the Old Testament with special attention to ancient Near Eastern context, Israelite history, literary forms, and theological contents.

RS 001H Introduction to Old Testament: Honors (4) By invitation only. A survey of the Old Testament with special attention to ancient Near Eastern context, Israelite history, literary forms, and theological contents, with more advanced readings and more discussion, research, and writing than in RS 001.

RS 010 Introduction to New Testament (4) Survey of the New Testament in the historical and cultural context of early Judaism and the Graeco-Roman world. Attention to literary forms and theological contents.

RS 020 Introduction to Christian Doctrine (4) Thematic examination of biblical doctrines, including God, Christ, Holy Spirit, humanity, redemption, the Church, revelation, last things; consideration of their historical development and contemporary meaning.

Upper-Division Course Descriptions

GRK 101, 102 Intermediate Greek I, II (4,4) Prerequisite: GRK 002. Review of grammar and focused study of syntax, textual criticism and exegetical method with extensive reading in the Greek New Testament.

GRK 151 Advanced Greek Reading (4) Selected reading from the New Testament and other literature of the period. Offered by petition.

HB 101 Intermediate Hebrew (4)Prerequisite: HB 001 and HB 002. An intermediate level readings class in which students will read the Hebrew Bible in a seminar setting twice per week. Here selected OT passages are read to develop the student's mastery of biblical Hebrew. Emphasis is given to vocabulary, grammar, syntax, compositional methodology, rhetorical issues, and general poetics. Selections will come primarily from prose narratives in order to reinforce standard grammatical principles. The last several weeks of the course will focus upon the unique features of biblical poetry.

RS 100 Foundations of Spiritual Formation (4) Recommended: RS 020. An exploration of the disciplines of the Christian spiritual life. Readings in classical and contemporary literature on spirituality, especially spiritual autobiographies.

RS 101 Pentateuch (4) Prerequisite: RS 001. Recommended: RS 010. A study of the formation of Israel as a people under God's initiative: prehistory, patriarchs, exodus, wilderness, and Sinai. Emphasis on history, literature, and theology.

RS 102 Poetic and Wisdom Literature of the Old Testament (4) Prerequisite: RS 001. Recommended: RS 010. A study of Job, Psalms, Proverbs, Ecclesiastes, and Song of Songs focusing on comparative literature, literary forms, settings in Israelite society, and theological themes.

RS 103 Christian Apologetics (4) Prerequisites: RS 001 and RS 020. Recommended: RS 010. An exploration into the relation of Christian faith and reason, God's existence, the problem of evil, the possibility of miracles, the historicity of the Resurrection, and the intelligibility of the Trinity and the Incarnation.

RS 104 Topics in Old Testament Studies (4) Prerequisite: RS 001. Introduces students to advanced issues and research methods in Old Testament studies. The topic will be announced in advance.

RS 106 The Old Testament in Ancient Near Eastern Context (4) Prerequisite: RS 001. Recommended: RS 010. A study of the Old Testament in the light of the history and literature of the ancient Near East, with an emphasis on Egyptian, Sumerian, Babylonian, Assyrian, Hittite, and Ugaritic myths, epics, legends, historical texts, and wisdom literature in English translation. In addition, an examination of the methodological and theological issues raised by the similarities and dissimilarities between biblical and extra-biblical literature.

RS 107 Topics in New Testament Studies (4) Prerequisite: RS 010. Detailed exploration of critical issues and questions in New Testament studies. Topics announced in advance.

RS 108 Prophetic Literature of the Old Testament (4) Prerequisite: RS 001. Recommended: RS 010. A study of prophets and prophecy in ancient Israel concentrating on the prophet's role in society, forms of prophetic speech, historical background, and theological perspectives.

RS 110 Jesus in the Gospels (4) Prerequisite: RS 010. Recommended: RS 001. Careful study of Jesus in canonical, historical, and cultural contexts with attention to his aims and message.

RS 111 Paul and His Legacy (4) Prerequisite: RS 010. Recommended: RS 001. Survey of Paul's life and letters. Attention to historical context, theological themes, practical questions, and Paul's continuing impact on early and contemporary Christianity.

RS 113 The Church in the New Testament (4) Prerequisite: RS 010. Recommended: RS 001. Study of the developing theology and praxis of the early church as seen across the New Testament, with special attention to Acts and the epistles.

RS 114 The World of the New Testament (4) Prerequisites: RS 010. Recommended: RS 001. A study of the historical context of the New Testament with reference to the texts, cultures, and religions of the Mediterranean World.

RS 116 The Apocalypse (4) Prerequisite: RS 010. Recommended: RS 001. A study of the New Testament book of Revelation in the context of biblical and Second Temple apocalyptic literature with attention to literary conventions, symbolism, theology, historical context and contemporary relevance.

RS 119 Early and Medieval Christianity—100-1450 (4) This course examines in depth the major theological, institutional, and historical developments in Christianity from its inception to the late Middle Ages (1450 CE).

RS 120 Reformation and Modern Christianity (4) This course examines the major theological and historical developments in Christianity during the period from the Protestant Reformation up to the present, exploring the various Christian beliefs, practices, and communities that were developed and matures over the last five centuries in constant interactions with their surrounding cultures and sociopolitical contexts.

RS 124 Old Testament Theology (4) Prerequisite: RS 001. Recommended: RS 010. Ancient Israel's faith: historical context and relevance for the church. Consideration of methodology, names and nature of God, covenants, and relation between the Testaments.

RS 125 Theology (4) Prerequisite: RS 020. Recommended: RS 001 and RS 010. A sustained exploration of the global enterprise of Christian theology as rooted in scripture and reflecting on the life of the church, conducted from an evangelical perspective and drawing on major theological methods, concerns, projects, thinkers, and contexts.

RS 126 Topical Theology (4) Prerequisite: RS 020. Recommended: RS 001 and RS 010. Explores a topic or locus of sustained Christian theological reflection, such as the doctrines of revelation, God, creation, humanity, sin, reconciliation, church, and eschatology.

RS 127 Theological Formation (4) Prerequisite: RS 020. Recommended: RS 001 and RS 010. Explores the Christian faith as articulated and passed on through one or more major texts of the Christian catechism, such as the Apostles' Creed and other confessions, the Lord's Prayer, the Ten Commandments, and the practices of the worshipping church.

RS 129 Interdisciplinary Theology (4) Prerequisite: RS 020. Recommended: RS 001 and RS 010. Explores one or more specific movements and issues at the intersection of theology and other disciplines of the humanities and sciences.

RS 130/PHI 130 Philosophical Theology (4) Prerequisites: PHI 006, PHI 006H, or IS 010H, and RS 020. Analysis of God's attributes (omniscience, immutability, eternality); the relation of time to eternity; the Trinity; God's foreknowledge and human freedom; morality and God's will; the logic of the Incarnation.

RS 131 Theology Seminar (4) Prerequisite: RS 020. Recommended: RS 001 and RS 010. Focused study of an issue, person, or movement not covered by other courses.

RS 132 Theology in Film (4) Recommended: RS 020. Theological analysis of, and response to, films and video series from a variety of cultures and in a variety of genres.

RS 133/ART 133 Art, Theology and Worship (4) Recommended: RS 020. A study of the arts in Christian worship with a particular emphasis on the visual arts. Within a broadly historical framework, this course invites students to consider the roles that the arts have played in worship, to understand the range of theological and doctrinal understandings that have been used to interpret and support their use, and to become sensitive to the social and economic circumstances that are also involved.

RS 134 / GS 134 Gender in Theological Perspective (4) Study of key issues and questions relating to gender in the context of and in interaction with sacred texts, theologies, or religious communities. Specific topics addressed will vary by semester. Course may be repeated for credit.

RS 135 Embodiment and Suffering (4) This course is an inter-and multi-disciplinary course examining the sufferings embedded in human embodiment—(chronic and acute) psycho-somatic pain (physical and mental) illness, disability, and mortality—and their implications for and engagement with Christian theology, faith, community, and visions of wholeness and healing.

RS 137 Asian Christianity (4) Recommended: RS 142. The ways Christians and the Christian message engage Asian religious traditions (e.g., Hinduism, Buddhism), highlighting cultural, social, theological, and theoretical topics.

RS 138 Judaism (4) This course introduces the history, texts, practices, and legacy of Judaism from the biblical period to the present, with special attention to issues at the intersection of Jewish and Christian faith.

RS 139 The World of Islam (4) Recommended: RS 142. Introduces the rise and expansion of Islam from the seventh century to the present, its central beliefs, institutions and practices, and its impact on the religious and cultural history of the world. Throughout the course students will compare important elements of Islam with those of Christianity.

RS 142 World Religions (4) This course surveys a variety of world religions, including Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, Shinto, Islam, and Mormonism. Topics include the history of each religion, its beliefs and practices. Throughout the course students will compare important elements of the world religions with those of Christianity.

RS / EB 148 Theology and Economics of Wealth and Poverty (4) Prerequisites: RS 001 and RS 010. Provides a historical examination of the ways Christians have interpreted, applies and struggles with the Christian mandate regarding wealth and poverty. Discusses the economics of ancient Israel and first-century Roman Palestine in a consideration of Jewish (OT) and Greco-Roman backgrounds, New Testament teachings on wealth and poverty and subsequent interpretations. Analyzes the economic, cultural and theological elements of the historical development of Christian teaching on wealth and poverty.

RS 150 Theological History Seminar (4) Open only to RS majors and minors. Focus on a particular theologian or specific issues in religious history or theology.

RS 151/HIS 151 History of World Christianity (4) Surveys the history of Christianity from the New Testament to the present in Europe, Africa, Asia, and the Middle East, and from the colonial period to the present in North America and Latin America. Particular attention will be paid to intellectual, cultural, political, theological, and institutional developments in Roman Catholicism, Eastern Orthodoxy, and Protestantism.

RS 154 History of Israel (4) Prerequisite: RS 001. Recommended: RS 010. A survey of Israel's history in the Old Testament period, utilizing historiography, ancient Near Eastern sources, and archaeology in order to understand biblical events.

RS 155 Geography, History and Religions of the Holy Land (4) (Jerusalem University College) This off-campus course is offered through Jerusalem University College in Jerusalem. In addition to eight hours of predeparture sessions focused on map work, cultural context, and the story of Israel-Palestine, the student will spend three intensive weeks exploring the Land of the Bible, important sites and events in Israel's history, and the religious traditions of Judaism, Islam, and Eastern Christianity.

RS 157 History of Christian Mission (4) The past history and present conditions in Christian mission.

RS 159 Christian Mission (4) An introduction to contemporary biblical and theological understandings of the Christian mission, and theoretical models for implementation of that mission.

RS 160 Globalization: Self, Religions, Society (4) Examines the currents of modernity, late modernity, and globalization, as forces that are reshaping individual, corporate, and national identities, and explores what these social and structural refigurations mean to Christian mission.

RS 162 Religion and Filmmaking (4) Teaches technical skills, theological and religious components of film, as basic filmmaking (production, filming, and postproduction). Students produce films throughout the semester.

RS 163/PHI 163 Philosophy of Religion (4) Prerequisite: PHI 006, PHI 006H, or IS 010H, and RS 020. Significance of religious phenomena and the veracity of religious beliefs.

RS 165 Religions in Context (4) Topic varies with off-campus location (e.g., India, Middle East). Focused study of a major religion, exploring theology, traditions and contextual expression.

RS 180 Senior Seminar (4) Prerequisite: RS major with senior standing. (Earlier only by department chair approval.) Review and integration of skills in exegesis, hermeneutics, theology and historical analysis, toward the goal of an enduring faith and a missional Christianity. Themes and format will vary from year to year.

RS 190 Religious Studies Internship (4) Prerequisites: RS 020 and sophomore standing. Field experience of 6-12 hours per week with local church, parachurch, or service organizations. Arrangement of site placement coordinated with field personnel and course instructor. Core competencies in ministry and theology by an experienced practitioner are provided in class meetings, and on-site supervision is provided by site staff.

RS 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Social Science

Description of the Major. The social science major offers students an opportunity to study human beings by applying the methodology of science to the subject of our behavior as individuals and in groups. The social sciences share the search for general characteristics or patterns of human behavior rather than a concern for particular persons or institutions. Each of the four social sciences—history, political science, sociology, and economics—brings its own set of questions to the major and offers a different arena of human activity for observation and experiment. Social science majors will have a clearer understanding of how human beings function in community, how they organize to accomplish common goals, and how they seek to manage the production and exchange of goods and services. Students will also explore the normative questions of how individuals can live together and promote the work of the Kingdom of God.

Distinctive Features. Students may select certain emphases which will best serve them individually. The major provides a broader program than can be found in any single subject major. It may serve as preparation for seminary, as a teaching field, or in some cases, as preparation for graduate study in the field of greatest emphasis.

Career Choices. A degree in social science can lead to many interesting and challenging areas, including social work, law, health sciences, missions, ministry, business, government, and teaching.

Requirements for a Major: 48 units

Must complete one full area A-D (20 units); twelve units each in two other areas A-D (24 units); plus four units in fourth area A-D (4 units). Must complete at least 20 units of the required 48 units at the upper-division level regardless of which area (A-D) is chosen as the principal (20 unit) concentration. May enroll in any courses in the three areas outside the principal concentration (not just those listed here), within the normal constraints of course prerequisites and the major's requirement to complete at least 20 upper-division units. However, HIS 010 Perspectives on World History may not be used toward any portion of the Social Science major.

A. Economics and Business: 20 units

EB 010 Principles of Microeconomics (4)
EB 011 Principles of Macroeconomics (4)
Two of the following: (8)
- EB 102 Intermediate Microeconomics (4)
- EB 103 History of Economic Thought (4)
- EB 135 Money, Banking and Financial Markets (4)
- EB 137 Intermediate Macroeconomics (4)

Upper-Division EB Elective: (4)

B. History: 20 units

Please note HIS 010 will not count toward the History requirements of this major.

HIS 099 Foundations of History (4)
HIS 198 Senior Research Seminar (4)
Two upper division history courses, approved by the student's academic advisor, which study two different geographical regions and/or chronological periods (8)
Additional HIS Elective: (4)

C. Political Science: 20 units

POL 010 American Government (4)
POL 020 International Politics (4)
POL 030 Political Theory and Ideology (4)
Upper-Division POL Electives: (8)

D. Sociology: 20 units

SOC 001 Introduction to Sociology (4)
SOC 171 Sociological Theory (4)
Upper-Division SOC Electives: (12)

Sociology and Anthropology

Associate Professor S. Jirek, B. Kent (chair)
Assistant Professors J. Davidson, K. Davidson

***D*escription of the Major**. Every society establishes relational patterns that determine how its members should behave. There are prescribed ways for members to conduct group life, carry on economic activities, and sanction those who deviate from its expectations. These and other patterns of social behavior constitute the subject matter of sociology, a branch of science whose practitioners endeavor to explain the origins and functions of these social patterns.

The basic objective of the sociology major at Westmont College is to help students develop a sociological and anthropological perspective within the context of Christian faith. It is our hope that students will gain insight into the nature of society and culture through a disciplined examination of the social components of human activity.

***D*istinctive Features**. The sociology and anthropology curriculum at Westmont offers students the unique opportunity to study sociology and anthropology from an evangelical Christian standpoint. Professors are concerned about the intellectual and spiritual development of each student. Students receive academic credit for supervised field experience in various public and private agencies and organizations in Santa Barbara. Sociology-Anthropology majors are encouraged to participate in an off-campus program. Many students take advantage of the learning opportunities available at Westmont's nationally recognized Westmont in San Francisco program. Westmont sponsors several other opportunities that students find enrich their study of sociology or anthropology, though we recommend that you plan to attend only one program and only a total of eight units from such programs will be accepted toward the major requirements.

***C*areer Choices**. The sociology major provides an excellent background for a career in any of the "human services" including social work, counseling, vocational rehabilitation, probation, corrections, law enforcement, youth services and human resources. It also provides pre-professional preparation for ministry, law, public administration, and community development. In addition, it offers excellent background for entering the health, non-profit, and media industries.

The sociology major also makes it possible for students to pursue further training at the graduate level and become professional sociologists or anthropologists. The anthropology component of the curriculum prepares students for careers in foreign service, cross-cultural health programs, international relief and development work, international business, and missionary outreaches in developing countries.

***I*nterest Tracks**: Recognizing that students may desire to study a particular aspect of sociology in depth to better prepare for a career, the sociology and anthropology department has established three formal tracks within the sociology curriculum.

Requirements for a Major: 46 units

Regardless of the number of off-campus programs attended, only 8 off-campus units will be accepted toward the major requirements and only 4 for the minor.

General Sociology Track

This track is designed for students who are seeking a broad training in the sociological perspective. It prepares students with a critical understanding of society that is essential to many careers including those in the non-profit sector, education, business, governance, church ministry, and media. It is particularly suited for students who wish to pursue further work in academic sociology beyond the B.A.

Required Core Courses: 30 units

SOC 001 Introduction to Sociology (4)
SOC 108 Statistics and Quantitative Research Methods (4)
SOC 109 Qualitative Research Methods (4)
SOC 171 Sociological Theory (4)
One of the following:
SOC/AN 135 Gender in Cross-Cultural Perspective
SOC 189 Sociology of Race and Ethnicity (4)
SOC 195 Senior Seminar (2)
One of the following:
SOC 197 Senior Research Capstone (4)
SOC 199 Major Honors (4)
SOC 190 Internship (4)
Or one of the following completed within sociological context:
APP 190 Internship (4)
IS 190 Off-Campus Program Internship (4)
Other department-approved off-campus program internship (4)

Electives (not taken above): 16 units

At least two of the following courses: (8)
AN 115 Peoples and Cultures (4)
AN 140 Food Systems (4)
SOC 110 Social Problems (4)
SOC 113 Social Determinants of Health (4)
SOC/AN 135 Gender in Cross-Cultural Perspectives (4)
SOC/AN 150 Cross-Cultural Communication (4)
SOC 160 Internet and Society (4)
SOC 182 Sociology of Deviance (4)
At least two of the following courses: (8)
AN 145 Culture Theory (4)
SOC/AN 120 Religion and Society (4)
SOC 130 Sociology of the Family (4)
SOC/AN 155 Sociology of Global Inequality and Development (4)
SOC 161 Environmental Sociology (4)

SOC 177 Interpersonal Violence (4)
SOC 180 Human Services and Social Policy (4)
SOC 185 Fundamentals of Social Work Practice (4)
SOC 189 Sociology of Race and Ethnicity (4)

Human Services Track

This track is designed for students who are interested in pursuing a career in the helping professions or in community organizations. It is appropriate for students interested in pursuing careers in social welfare and other human service areas as well as those drawn toward careers in counseling and the criminal justice system.

Required Core: 38 units

SOC 001 Introduction to Sociology (4)
SOC 108 Statistics and Quantitative Research Methods (4)
SOC 109 Qualitative Research Methods (4)
SOC 171 Sociological Theory (4)
SOC 180 Human Services and Social Policy (4)
SOC 185 Fundamentals of Social Work Practice (4)
One of the following:
SOC/AN 135 Gender in Cross-Cultural Perspective (4)
SOC 189 Sociology of Race and Ethnicity (4)
SOC 195 Senior Seminar (2)
One of the following:
SOC 197 Senior Research Capstone (4)
SOC 199 Major Honors (4)
SOC 190 Internship (4)
Or one of the following completed within sociological context:
APP 190 Internship (4)
IS 190 Off-Campus Program Internship (4)
Other department-approved off-campus program internship (4)

Electives (not taken above): 8 units

At least one of the following courses:
AN 115 Peoples and Cultures (4)
AN 140 Food Systems (4)
SOC 110 Social Problems (4)
SOC 113 Social Determinants of Health (4)
SOC/AN 135 Gender in Cross-Cultural Perspectives (4)
SOC/AN 150 Cross-Cultural Communication (4)
SOC 160 Internet and Society (4)
SOC 182 Sociology of Deviance (4)
At least one of the following courses:
AN 145 Culture Theory (4)
SOC/AN 120 Religion and Society (4)
SOC 130 Sociology of the Family (4)

SOC/AN 155 Sociology of Global Inequality and Development (4)
SOC 161 Environmental Sociology (4)
SOC 177 Interpersonal Violence (4)
SOC 189 Sociology of Race and Ethnicity (4)

Students who wish to pursue graduate study in Social Work should also consider enrolling in courses (not available for major credit) from related fields, including:

PSY 001 General Psychology (4) *highly recommended*
Psychology, Communication studies, or Kinesiology courses related to your interests (PSY-115, PSY 117, PSY 122, PSY 131, PSY 132, PSY 140, COM 128, KNS 159, KNS 162, KNS 181)
Elementary, Intermediate, and/or Advanced Spanish

Cross-Cultural Track

This track is designed for students who are interested in studying the diverse cultural groups of the United States and the developing world. It is especially recommended for those who are interested in missions and cross-cultural ministries as well as for those who desire to pursue inter-cultural affairs for other applications.

Required Core Courses: 30 units

AN 001 Introduction to Cultural Anthropology (4)
AN 145 Culture Theory (4)
SOC 108 Statistics and Quantitative Research Methods (4)
SOC 109 Qualitative Research Methods (4)
One of the following:
SOC/AN 135 Gender in Cross-Cultural Perspective
SOC 189 Sociology of Race and Ethnicity (4)
SOC/AN 195 Senior Seminar (2)
One of the following:
SOC 197 Senior Research Capstone (4)
SOC 199 Major Honors (4)
Internship:
Department-approved off-campus, global program internship (e.g., Westmont's Global in Uganda Program (4)
APP 190 Internship (4)
IS 190 Off-Campus Program Internship (4)
SOC 190 Internship (4)

Electives (not taken above): 16 units

Students in the Cross-Cultural track are strongly encouraged to participate in a department-approved, off-campus, global program for elective credits (4-8)

At least one of the following courses:
AN 115 Peoples and Cultures: (4-8)

AN 140 Food Systems (4)
SOC/AN 135 Gender in Cross-Cultural Perspectives (4)
SOC/AN 150 Cross-Cultural Communication (4)
At least one of the following courses: (4-8)
SOC/AN 120 Religion and Society (4)
SOC 130 Sociology of the Family (4)
SOC/AN 155 Sociology of Global Inequality and Development (4)
SOC 189 Sociology of Race and Ethnicity (4)
Additional electives, if needed: (4-8)
SOC 110 Social Problems (4)
SOC 113 Social Determinants of Health (4)
SOC 160 Internet and Society (4)
SOC 161 Environmental Sociology (4)
SOC 177 Interpersonal Violence (4)
SOC 180 Human Services and Social Policy (4)
SOC 182 Sociology of Deviance (4)
SOC 185 Fundamentals of Social Work Practice (4)

An anthropology minor is available for those students desiring a cross-cultural emphasis.

Requirements for an Anthropology Minor: 24 units

AN 001 Introduction to Cultural Anthropology (4)
AN 145 Culture Theory (4)
Three of the following: (12)
AN 130 Applied Anthropology (4)
AN 135 Gender in Cross-Cultural Perspective (4)
AN 140 Food Systems (4)
AN 150/SOC 150 Cross-Cultural Communication (4)
AN 155/SOC 155 Sociology of Global Inequality and Development (4)
AN 196/SOC 196 Topical Seminar (4)
Upper-Division SOC/AN Elective (4)

Requirements for a Sociology Minor: 24 units

SOC 001 Introduction to Sociology (4)
SOC 171 Sociological Theory (4)
Upper-Division SOC Electives: (16)

Lower-Division Course Descriptions

Anthropology

AN 001 Introduction to Cultural Anthropology (4) The nature and dynamics of culture; a survey of the range of cultural phenomena, including material culture, social organization, religion and language, with emphasis on contemporary, non-literate societies. Emphasis is also given to the process of anthropological research, cross-cultural adaptation, and the applicability of anthropology to a range of social issues including healthcare, education, business, economic development, and missions.

Sociology

SOC 001 Introduction to Sociology (4) The analysis of patterned social relationships in modern societies and a survey of the major concepts and methods of sociology. Prerequisite to most upper-division courses in sociology.

SOC 050 Topical Seminar (4) Prerequisites: depending on the specifics of the course offered in a given semester. Seminar topics to be announced by department.

Upper-Division Course Descriptions

Anthropology

AN 115 Peoples and Cultures (4) A survey of the culture types in a particular geographical area and the anthropological frameworks and methods that have been used to describe them. Course may be repeated as geographical area changes. Areas offered: Latin America and Asia.

AN 120 Religion and Society (4) Prerequisite: SOC 001. Religion as a social phenomenon; patterns of religious behavior in American society; the church as a social institution.

AN 130 Applied Anthropology (4) Emphasizes the application of anthropological concepts, methods, and theories to solution of human problems. Topics covered include education, public health, natural resource management, health care, and rural development among others.

AN/SOC 135 Gender in Cross-Cultural Perspective (4) Examination of the sociological and anthropological theories that explain the similarities and differences in the ways in which varying cultural contexts construct gender.

AN/KNS 140 Food Systems (4) Surveys food production and consumption systems practiced in cultures around the world. Addresses issues of hunger, ethics of consumption and social and environmental justice.

AN 145 Culture Theory (4) Examination of the theories anthropologists, from the Evolutionists to post-Modernists, have used to understand human cultures and to explain similarities and differences among them.

AN 150 /SOC 150 Cross-Cultural Communication (4) The influence of culture on the communication process, including both verbal and non-verbal expression. Emphasizes problems of cross-cultural communication both overseas and within U.S. society with attention to acquiring skills to improve such communication.

AN 155 / SOC 155 Sociology of Global Inequality and Development (4) Anthropological and sociological approaches to economic development and sociocultural change in the context of the new nation-states created since colonialism ended in Africa, Asia, and Latin America.

AN 165 Anthropology of Education (4) This course uses the anthropological approach to study schools and to understand the relationship between learning, teaching, societies and culture. It offers a holistic view of educational processes, by exploring biological and cultural aspects of the acquisition, transmission and production of knowledge. It uses a comparative framework to analyze the connection between educational systems and socio-cultural contexts, and to explore the roles that schools play as agents of continuity, conflict and change.

AN 195 Senior Seminar (2) Prerequisites: Senior standing. This capstone course asks students to look back at their major studies at Westmont and to look forward to living out ideals and cultivating skills after graduation through the application of their knowledge in contemporary social or cultural issues. Themes and format may vary from year to year.

AN 196 Topical Seminar (2-4) Prerequisite: Junior standing. Seminar topics to be announced by department. Enrollment limited.

AN 197 Senior Research Capstone (4) Prerequisite: SOC 106, SOC 107, SOC 171 or AN 145, and Senior standing. This course is designed for the synthesis of students' knowledge gained during their major studies at Westmont and integration of sociological or anthropological thinking with a Christian faith and theology through the completion and presentation of a topical research project. Meets GE "Research" requirement.

AN 198 Independent Research (4) Prerequisite: Junior standing; instructor consent required. Guided original research on appropriate issues in Sociology/Anthropology culminating in an advanced research report.

AN 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Sociology

SOC 108 Statistics and Quantitative Research Methods (4) Prerequisite: SOC 001 or AN 001. Introduces the use of statistics for social research as a foundation for research design and the collection and analysis of quantitative data. Attention is given to organization and presentation of data, measures of central tendency, measures of variability, probability, sampling distributions, the central limit theorem, estimation, hypothesis testing, chi-square tests, t-tests, analysis of variance, and linear and logistic regression modeling. Students employ statistical software on project-based learning to demonstrate abstract and quantitative reasoning in exploring a social issue or problem.

SOC 109 Qualitative Research Methods (4) Prerequisite: SOC 001 or AN 001. Introduces the key elements of social scientific research design as a foundation for collecting and analyzing qualitative data through methods such as observational methods, interviewing, and content analysis. Focuses upon the techniques employed in the collection, analysis, and presentation of qualitative data. Attention will be given to issues of validity, reliability, ethics, and the researcher's role.

SOC 110 Social Problems (4) Analysis of selected current social problems including poverty, crime, aging, race, gender, health care, and the family.

SOC 113 Social Determinants of Health (4) This is an introductory course to the sociological study of health in society. Students will explore a variety of topics, including social and environmental factors that influence health, health in developed and developing countries, the experience of living in poor health, and health care in the United States. We will examine factors like race, class, gender, sexuality, religion/spirituality, childhood experience, age, and other factors. Throughout the course students will learn to adopt a sociological lens in cultivating a deeper understanding of the social world.

SOC 120 Religion and Society (4) Prerequisite: SOC 001. Religion as a social phenomenon; patterns of religious behavior in American society; the church as a social institution.

SOC 130 Sociology of the Family (4) Prerequisite: SOC 001. A historical and cross-cultural study of the family as a social institution; including gender roles, social class, and family violence.

SOC/AN 135 Gender in Cross-Cultural Perspective (4) Examination of the sociological and anthropological theories that explain the similarities and differences in the ways in which varying cultural contexts construct gender.

SOC 138 Complex Organizations (4) Prerequisite: SOC 001. An analysis of the formal and informal structure of modern, complex organizations and the role of bureaucracy in contemporary society.

SOC 143 Urban Sociology (4) Prerequisite: SOC 001. Dynamics and structure of the urban community; the growth of cities; problems and future prospects of modern city living.

SOC 145 Social Psychology (4) Prerequisite: SOC 001. A survey of the field of social psychology from a sociological orientation. Emphasis will be on basic theoretical concepts, with some consideration given to application.

SOC 150 / AN 150 Cross-Cultural Communication (4) The influence of culture on the communication process, including both verbal and non-verbal expression. Emphasizes problems of cross-cultural communication both overseas and within U.S. society with attention to acquiring skills to improve such communication.

SOC 155 / AN 155 Sociology of Global Inequality and Development(4) Anthropological and sociological approaches to economic development and sociocultural change in the context of the new nation-states created since colonialism ended in Africa, Asia, and Latin America.

SOC 160 Internet and Society (4) A survey of how digital technologies influence the social institutions that frame contemporary relationships, community, and identity. Historical and theoretical foundations for understanding the interactions between technology, communication, and society are explored.

SOC 161 Environmental Sociology (4) Early sociology made little effort to examine the nexus of society and nature, as the two were regarded as well-differentiated spheres. More recently, however, environmental sociologists have developed sophisticated theoretical and empirical work to examine how society affects nature and how nature affects society. The course examines topics such as environmental problems, theory, consumption, justice, and technology, with a particular focus on religious institutions and ideologies.

SOC 171 Sociological Theory (4) Prerequisite: SOC 001. A survey of classical and contemporary social theory from Comte to Giddens. Attention given to both substantive and metatheoretical ideas.

SOC 177 Interpersonal Violence (4) Prerequisite: SOC 001 or AN 001. An examination of the major theories, causes, and correlates of violence, including intimate partner violence, sexual assault, child abuse, elder abuse, robbery, hate crimes, and murder. Emphasizes how violence is interconnected with gender, race / ethnicity, social class, and social inequalities. Explores past and current violence prevention and intervention efforts.

SOC 180 Human Services and Social Policy (4) Prerequisite: SOC 001 or AN 001. An introduction to the breadth of the human services professions from a sociological perspective. Provides an overview of the history of social welfare programs and policies in the U.S. Explores the range of populations with which helping professionals work. Examines the ethics, common challenges, and professional responsibilities of human services professionals.

SOC 182 Sociology of Deviance (4) Prerequisite: SOC 001 or AN 001. An examination of deviance from both a sociological and a Christian perspective. Explores the major theories of deviance, as well as the social construction, political nature, and social control of deviance using various case examples. The development, management, and cessation of deviant roles, identities, and careers are also explored.

SOC 183 Social Entrepreneurship and Collective Action (4) This course explores different theories and practices of social change, entrepreneurship, and innovation. As such, the course considers a range of methods to resolve pressing social problems while situating social ventures into theoretical, historical, structural, and scriptural context. Throughout the course, students will examine locally specific, solutions-oriented social change efforts and then place those efforts into global context.

SOC 185 Fundamentals of Social Work Practice (4) Prerequisite: SOC 001 or AN 001. An introduction to the micro-level skills used in social work and related helping professions. Explores the phases of the helping process, with an emphasis on practicing key skills. Examines what it means to engage in anti-oppressive, trauma-informed, and cross-cultural social work. Explores the ethics of social work practice, as well as issues related to secondary traumatic stress and burnout.

SOC 189 Sociology of Race and Ethnicity (4) Prerequisite: SOC 001 and junior standing, or permission of the instructor. Provides an historical overview of racial and ethnic relations in the United States, with an emphasis on systemic racism in the cultural, economic, and political dimensions of social life. The course includes an analysis of contemporary race relations and of race-related issues and evaluates anti-racist strategies and solutions.

SOC 190 Internship (2-8) Prerequisite: Junior standing and consent of the instructor. Practical field experience chosen from a variety of possible social service agencies and community organizations. Supervision provided by qualified agency personnel and the instructor. Students must arrange their own transportation. Students are encouraged to take the internship on a 4-4 plan. Students may elect to apply eight units of IS 190 toward the major in lieu of SOC 190.

SOC 195 Senior Seminar (2) Prerequisite: Senior Standing. This capstone course asks students to look back at their major studies at Westmont and to look forward to living out ideals and cultivating skills after graduation through the application of their knowledge in contemporary social or cultural issues. Themes and format may vary from year to year.

SOC 196 Topical Seminar (2-4) Prerequisite: Junior standing. Seminar topics to be announced by department. Enrollment limited.

SOC 197 Senior Research Capstone (4) Prerequisite: SOC 108, SOC 109, SOC 171 or AN 145, and Senior standing. This course is designed for the synthesis of students' knowledge gained during their major studies at Westmont and integration of sociological or anthropological thinking with a Christian faith and theology through the completion and presentation of a topical research project.

SOC 198 Independent Research (4) Prerequisite: Junior standing; instructor consent required. Guided original research on appropriate issues in Sociology/Anthropology culminating in an advanced research report.

SOC 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Spanish

Professor M. Docter (chair)
Associate Professor L. Elías
Assistant Professor C. Molina

***D*escription of the Major**. The Spanish major at Westmont develops advanced proficiency in Spanish and provides students with intercultural competencies to function effectively in a Spanish-speaking environment. At the elementary, intermediate, and upper-division levels, professors teach Spanish communicatively so that grammar is mastered but not at the expense of oral proficiency. The emphasis is on the culture, civilization, and literature of the people who speak this language.

***D*istinctive Features**. The Spanish major produces globally-minded individuals uniquely equipped to work effectively in our increasingly diverse and interconnected world. The major combines the perspective of a liberal arts background, cross-cultural experience, and advanced competency in the language. Students achieve these goals through classroom instruction and residence in a culture where Spanish is the native language. Spanish majors complete one semester (15-16 units minimum) abroad at an approved university in Spain or Latin America. Students are eligible to study abroad after having completed at least four units of upper-division work in Spanish and SP 150 (Cross-Cultural Studies). The courses offered vary from year to year and from program to program, but always include language, literature, and civilization and culture classes. Students may choose from the following programs and locations in Latin America and Spain: Querétaro, Mexico (Westmont in Mexico), Quito, Ecuador (Brethren Colleges Abroad), or Sevilla, Spain (Trinity Christian College).

Students benefit from small class sizes, close student-faculty relationships, a flexible curriculum, and first-hand experience in a Spanish-speaking environment. The rigorous curriculum provides training which prepares students for professional pursuits or advanced study in Spanish at the graduate level.

As our society becomes more global, all graduates entering *any* field would benefit from fluency in Spanish and cross-cultural skills. The Spanish major lends itself particularly well to doubling with majors in a wide variety of disciplines, including the sciences, education, economics and business, communications, anthropology and sociology, political, science and religious studies, among others.

***C*areer Choices**. Proficiency in another language and understanding of other peoples and cultures are essential tools in today's interconnected world. Our graduates successfully enter careers in international and domestic business and law; medicine; social work; psychology and counseling; speech and language therapy; journalism and communications; foreign service; primary, secondary, and bilingual education; foreign andhome missions; and translation and interpretation, among others.

Requirements for a Major: 36-40 units

A. Language, and Literature Track: 36 units

In completing the requirements below, majors are required to take one semester (of typically 15-19 units) at an approved university in Spain or Latin America. Prior to the semester abroad—typically taken in the sophomore or junior year—students must first have completed three semesters of college-level Spanish (or the equivalent), and SP 150 (Cross-Cultural Studies). To conclude their Spanish major, students take SP 196 (Capstone), preferably in the last semester of their coursework.

Core Courses: (12)

SP 100 Advanced Spanish (4)
SP 125 Introduction to Hispanic Literature (4)
SP 150 Cross-Cultural Studies (4)

Elective Courses: (20)

Five of the following:
SP 106 Advanced Fluency and Communication (4)
SP 110 Hispanic Cultures: Spain (4)
SP 111 Hispanic Cultures: Latin America (4)
SP 130 Hispanic Film and Literature (4)
SP 160 Survey of Mexican Literature (4)*
SP 172 Golden Age Literature (4)
SP 173 Cervantes: Don Quijote de la Mancha (4)
SP 176 Post-Civil War Spanish Literature (4)
SP 180 Latin American Women Writers (4)
SP 183 Contemporary Latin American Poetry (4)
SP 184 Contemporary Latin American Short Story (4)
SP 185 Contemporary Latin American Novel (4)
SP Seminar: Special Topics (2-4)
(or approved courses taken abroad)

Capstone Course: (4)

SP 196 Spanish Capstone (4)

**Westmont in Mexico course*

B. Hispanic Studies Track: 40 units

This track allows students to combine their interest in Spanish with another discipline in a related field. Students must work closely with their major advisor to ensure all related courses outside the Modern Language Department satisfy the requirements for the Spanish major. Students will complete one semester (of typically 15-19 units) at an approved university in Spain or Latin America. Prior to the semester abroad—typically taken in the sophomore or junior year—students must first have completed three semesters of college-level Spanish (or the equivalent), and SP 150 (Cross-Cultural

Studies). To conclude their Spanish major, students take SP 196 (Capstone), preferably in the last semester of their coursework.

Core Courses: 16 units

SP 100 Advanced Spanish (4)
SP 125 Introduction to Hispanic Literature (4)
SP 150 Cross-Cultural Studies (4)
One of the following: (4)
SP 110 Hispanic Cultures: Spain (4)
SP 111 Hispanic Cultures: Latin America (4)
(or an approved course taken abroad)

Elective Courses: (12)

Three of the following:
SP 106 Advanced Fluency and Communication (4)
SP 110 Hispanic Cultures: Spain (4)
SP 111 Hispanic Cultures: Latin America (4)
SP 130 Hispanic Film and Literature (4)
SP 160 Survey of Mexican Literature (4)*
SP 172 Golden Age Literature (4)
SP 173 Cervantes: Don Quijote de la Mancha (4)
SP 176 Post-Civil War Spanish Literature (4)
SP 180 Latin American Women Writers (4)
SP 183 Contemporary Latin American Poetry (4)
SP 184 Contemporary Latin American Short Story (4)
SP 185 Contemporary Latin American Novel (4)
SP Seminar: Special Topics (2-4)
(or approved courses taken abroad)

Related Courses: 8 units

2 courses in related fields, which may be taken in English. For example, IS-193-M (Engaging Cultures) and IS-197 (Reentry) are pre-approved courses in this area. Other possible courses are listed below. Note that approved courses taken abroad can count as a related course (e.g., HIS 160, ART 121, SIS 311, etc.) if you have already completed your electives.

NOTE: In most cases, to receive credit for courses taken from other departments in English, students must submit a pre-approval form to the department chair (including a copy of the syllabus with relevant readings and assignments highlighted and their proposed research project for the course in their area of study). Following completion of the course, students also submit their final paper/project. Possible examples, pending departmental pre-approval, include:

AN 115 Peoples and Cultures of Latin America (4)
AN 150 Cross-Cultural Communication (4)
AN 155 Sociology of Global Inequality and Development (4)
ART 121 Mexican Art (3)*
COM 138 International Rhetoric (4)

EB 104 World Poverty and Economic Development (4)
EB 161 International Marketing (4)
EB 187 Comparative Economic Systems (3)
ED 105 Perspectives on Cultural Diversity and Education (4)
ENG 106 Language Acquisition (4)*
GLS 140 Global Studies Seminar (4)
GLS 141 Global Studies Capstone (2-4)
HIS 160 Mexican History and Civilization (4)*
HIS 161 Latin America to Independence (4)*
HIS 162 Modern and Contemporary Latin America (4)
HIS 178 California History (4)
IS 144 Sociology of Immigration and Urban Poverty (3)
IS 193 Seminar: Engaging Culture (3)*
IS 197 Reentry Seminar (2)*
PEA 025 Latin Dance (1)*
POL 112 International Organizations and Law (4)
POL 113 Race and Politics (4)
POL 120 Democracies and Dictators (4)
POL 124 International Development (4)
PSY 132 Cultural Psychology (4)
RS 160 Globalization: Self, Religions, Society (4)
SOC 135 Gender in Cross-Cultural Perspective (4)
SOC 150 Cross-Cultural Communication (4)
SOC 155 Sociology of Global Inequality and Development (4)
SOC 189 Sociology of Race and Ethnicity (4)

NOTE: Petitions are **not required for these courses, as they have already been vetted and preapproved by the Modern Language Department*

Capstone Course: (4)

SP 196 Spanish Capstone (4)

Requirements for a Minor: 20 units

20 units, 12 of which must be upper-division. At least one upper-division class (4 units) must be taken on the Westmont campus. (Note: SP 150, IS 192, IS 193, and IS 197 do not count for the Spanish minor as they are taught in English.)

Spanish minors intending to study abroad must first complete a minimum of two semesters of college-level Spanish. Prior to their semester abroad, Spanish minors should work carefully with their advisors to ensure all courses taken off campus will count for the minor.

Lower-Division Course Descriptions

SP 001 Elementary Spanish I (4) Introduction to the four basic language skills: reading, writing, listening, and speaking, with emphasis on oral communication. All skills reinforced through cultural readings. The course is taught almost exclusively in

Spanish. Spanish 1 is for students with no prior Spanish experience or who have taken less than two years of high school Spanish.

SP 002 Elementary Spanish II (4) Continued introduction to the four basic language skills: reading, writing, listening, and speaking, with emphasis on oral communication. All skills reinforced through cultural readings. The course is taught almost exclusively in Spanish. Pre-requisite: Placement test or Spanish 1 at the college level.

SP 003 Intermediate Spanish I (4) Further development and refinement of the four basic language skills: reading, writing, listening, and speaking, with emphasis on oral communication. All skills reinforced through cultural readings. Multiple short essays required. The course is taught exclusively in Spanish. Pre-requisite: Placement test or Spanish 2 at the college level.

Upper-Division Course Descriptions

Unless otherwise noted, all upper-division courses are conducted in Spanish. Readings and discussions are in Spanish; all papers and examinations written in Spanish.

SP 100 Advanced Spanish (4) Prerequisite: SP 003 or Language Placement Test. An intensive course designed to reinforce students' reading, oral, and written skills in Spanish. Emphasis on skills such as composition and advanced reading comprehension to develop students' vocabulary and familiarity with the finer points of Spanish grammar and syntax.

SP 106 Advanced Fluency and Communication (4) Prerequisite: SP 003 or equivalent. Advanced Fluency and Communication focuses on the development and improvement of students' communication skills in Spanish (based on the Language Proficiency Categories used by American Council on the Teaching of Foreign Languages). This course emphasizes advanced grammatical structures and vocabulary development for oral proficiency as well as increased fluency and more nuanced pronunciation. Students will be delivering informative, demonstrative, and persuasive formal speeches. The course places a strong emphasis on the acquisition of necessary grammar and vocabulary through dialogues, discussions, debates, extemporaneous talks, and readings.

SP 110 Hispanic Cultures: Spain (4) Prerequisite: SP 003 or equivalent. A survey of the leading social, political, religious, and artistic issues in Spain from the Middle Ages to the present.

SP 111 Hispanic Cultures: Latin America (4) Prerequisite: SP 003 or equivalent. A survey of the leading social, political, religious, and artistic issues in Latin America, from pre-Columbian times to the present, with emphasis on the twentieth and twenty-first centuries.

SP 125 Introduction to Hispanic Literature (4) Prerequisite: SP 100. The purpose of this course is to offer a panoramic view of the main authors of Hispanic literature. Even though the course includes readings from the Middle Ages to the present, the goal is not to give a chronological view of Hispanic literature. Rather, the main focus is to foment in the students the skills necessary for literary analysis. To do this, numerous texts in prose, drama, and poetry will be framed within the historic context and the literary movements in which they were produced. In addition, the readings shall be examined in a Christian context.

SP 130 Hispanic Film and Literature (4) Prerequisite: SP 003 or equivalent. Study of Hispanic film as a narrative and visual medium, and introduction of basic concepts of film analysis. Through journals and papers, students will develop their "visual literacy" and their analytical abilities in "reading" a film.

SP 150 Cross-Cultural Studies (4) Taught each Spring for students planning to study abroad the following academic year. This course designed to help you get the most out of your study abroad experience by preparing you for it intellectually, culturally, emotionally, and spiritually. (Note: This course is taught in English and does not count for the Spanish minor.)

SP 172 Golden Age Literature (4) Prerequisite: SP 125. Study of the historical context and literary movements that comprise Spanish Golden Age Literature (16th and 17th centuries) through readings and discussions of works of poetry, prose, and drama by major writers including Cervantes, Quevedo, Góngora, Lope de Vega, and Calderón de la Barca.

SP 173 Cervantes: Don Quijote de la Mancha (4) Prerequisite: SP 125. This course explores Cervantes's *El ingenioso hidalgo don Quijote de la Mancha* and analyzes it within its historical and artistic context of Renaissance and Baroque Spain.

SP 176 Post-Civil War Spanish Literature (4) Prerequisite: SP 125. Study of the history and literature of the Spanish Civil War and the dictatorship of Franco. Readings and discussions of works by major twentieth-century Spanish novelists and playwrights, including Cela, Delibes, Laforet, Buero-Vallejo and Sastre. In addition films by Camus, Cuerda, and Erice will be viewed and discussed.

SP 180 Latin American Women Writers (4) Prerequisite: SP 125. This course will explore women's experiences, literary contributions, in theoretical and/or historical perspectives. Issues of gender, culture, race, and class will be of particular interest. Regions, writers, and genres for this class may vary.

SP 183 Latin American Poetry (4) Prerequisite: SP 125. Study of the historical context and literary movements that comprise Latin American poetry through readings and discussions of major poets, such as Sor Juana, César Vallejo, Pablo Neruda, as well as works by more recent poets.

SP 184 Contemporary Latin American Short Story (4) Prerequisite: SP 125. Readings and discussions of 20th and 21st century works by such major 20th century writers as Quiroga, Borges, Rulfo, and García Márquez, as well as women writers and more recent Latin American authors.

SP 185 Contemporary Latin American Novel (4) Prerequisite: SP 125. Readings and discussions of 20th and 21st century novels by such major writers as Rulfo, Fuentes, García Márquez, and Allende, as well as more recent writers.

SP 190 Internship (1-8) Internship related to major at a variety of employers. This course requires a petition and instructor approval.

SP 195 Seminar: Special Topics (2, 4) Prerequisite: SP 125. Advanced study of a single author or topic in Spanish or Latin American literature. Course may be repeated as topics vary.

SP 196 Spanish Capstone (4) Prerequisite: Senior standing. Taught each spring. This capstone is designed to be a culminating experience for Spanish majors to reflect upon and refine all you have learned as a Westmont Spanish major as well as a space to imagine and plan how that learning will propel you into post-graduate life. Open exclusively to senior level Spanish majors, this integrative seminar invites intentional reflection and open and thoughtful dialogue with your peers and professors. All students will read and give feedback on each other's projects and papers. Additionally, all students will participate in an internship in the community as part of the course.

SP 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Theatre Arts

Professor M. Thomas
Associate Professor J. Hicks (chair)
Assistant Professor M. Fanton

***D*escription of the Major.** The study of Theatre Arts at Westmont blends traditional and contemporary approaches to the art of the stage, engaging students in a dynamic and lively exploration of theatre. Majors participate in the interdisciplinary nature of the field through an integrated study of acting and directing, design and technology, dramatic literature and theory, theatre history, and extensive elective options. The department's many courses and projects provide a deep and broad understanding of the field, and create opportunities for the development of personal creativity and critical thinking skills.

***D*istinctive Features.** Students are able to select one of two major tracks, and the wide array of courses offered allows students to fashion a portion of their major according to their particular interests, talents, and professional goals. Students are encouraged to take advantage of the many theatre-oriented Off-Campus programs that Westmont offers, including programs in England, Ireland, San Francisco and Los Angeles. The department has an active and robust production season with myriad opportunities for students. Directed by faculty artists, students create compelling productions of scripted plays, adaptations of literature, and original performance pieces and choreography. The annual Fringe Festival provides students a platform for the development of original work in theatre, dance, film, and performance art. The department's holistic approach illuminates the aesthetic, social, and spiritual ramifications of the discipline, and develops wide-ranging perspectives of human experience, taught from a Christian perspective.

***C*areer Choices.** The field of theatre arts includes many opportunities for graduate training and professional work, including acting, directing, design, playwriting, research and scholarship, stage management, and business management. In addition, the major develops skills that extend far beyond those connected with theatrical production. These include skills that are vital to a wide variety of careers: the confident presentation of self in the public area, self-knowledge, artistic creativity, critical thinking, writing skills, and collaborative group dynamics.

Requirements for a Major in Theatre Arts: 44-60 units

Theatre in the Liberal Arts Track: 44 units

Westmont's Theatre in the Liberal Arts track is designed for students who intend to double major in Theatre Arts and another discipline, others who desire to use elective options to tailor their focus within vocational aspirations, or still others who seek a single subject credential in tandem with a Liberal Studies major.

Required Lower-Division Core Courses: 16 units

TA 001 Great Literature of the Stage (4)
TA 037 Scenic Technology (4)
One of the following: (4)
TA 010 Acting I (4)
TA 051 Acting the Song (4)
One of the following: (4)
TA 035 Costume Design (4)
TA 036 Scenic Design (4)
TA 038 Lighting Design (4)

Upper-Division Breadth Requirements: 14 units

One of the following: (4)
TA 120 Theatre History I (4)
TA 121 Theatre History II (4)
TA 125 Directing for the Theatre (4)
TA 153 Contemporary Theatre and Film Performance (4)
TA 193 Senior Project (2)

Required Applied Theatre Arts: 6 units
Take 6 units of the following:

APP 060/160 Film Production (1-2)
TA 050/150 Rehearsal and Performance (1-2)
TA 060/160 Technical Production (1-2)

Theatre Arts Electives: 8 units

TA 009 Voice and Speech Through Performance (4)
TA 010 Acting I: Foundations (4)
TA 011 Acting II (4)
TA 035 Costume Design (4)
TA 036 Scenic Design (4)
TA 038 Lighting Design (4)
TA 051 Acting the Song (4)
TA 111 Acting III: Shakespeare and Clown (4)
TA 120 History of the Theatre I
TA 121 History of the Theatre II
TA 124 Survey of Dramatic Theory and Criticism (4)
TA 137 Design for Performance (4)
TA 140 Race and Gender on the American Stage (4)
TA 142 Global Theatre (4)
TA 145 Writing for Performance (4)
TA 153 Contemporary Theatre and Film Performance (4)
TA 186 World Theatre I (4)
TA 187 World Theatre II (4)
TA 190 Internship (1-8)
TA 195 Seminar: Special Topics (2,4)
TA 196 Senior Seminar: Launchpad (4)

Up to 4 additional units of TA 150, and/or TA 160
Up to 4 additional units of APP 060/160 Film Production
England Semester (up to 8 units)
London Mayterm (up to 8 units)

Theatre Studies Track: 60 units

Westmont's Theatre Studies track is designed for students who wish to complete a single major, and have aspirations for graduate school and/or future professional work in the field. Students can tailor their interests, gifts, and vocational aspirations relative to performance, design, or literature and history, or pursue a wide-ranging study of the discipline.

Required Lower-Division Core Courses: 16 units

TA 001 Great Literature of the Stage (4)
TA 037 Scenic Technology
One of the following: (4)
  TA 010 Acting I (4)
  TA 051 Acting the Song (4)
One of the following: (4)
  TA 035 Costume Design (4)
  TA 036 Scenic Design (4)
  TA 038 Lighting Design (4)

Upper-Division Breadth Requirements: 22 units

TA 120 Theatre History I (4)
TA 121 Theatre History II (4)
TA 125 Directing for the Theatre (4)
TA 153 Contemporary Theatre and Film Performance (4)
TA 193 Senior Project (2)
TA 196 Senior Seminar: Launchpad (4)

Required Applied Theatre Arts: 6 units

TA 050/150 Rehearsal and Performance (1-2)
TA 060/160 Technical Production (1-2)

Theatre Arts Electives: 16 units

Students' elective choices can emphasize a particular specialized part of the field, such as acting and directing, design and technology, or literature and history, or can maintain a broader approach, relative to student interest and vocational goals.

TA 009 Voice and Speech Through Performance (4)
TA 010 Acting I: Foundations (4)
TA 011 Acting II (4)
TA 035 Costume Design (4)
TA 036 Scenic Design (4)
TA 038 Lighting Design (4)
TA 051 Acting the Song (4)

TA 111 Acting III: Shakespeare and Clown (4)
TA 124 Survey of Dramatic Theory and Criticism (4)
TA 137 Design for Performance (4)
TA 140 Race and Gender on the American Stage (4)
TA 142 Global Theatre (4)
TA 145 Writing for Performance (4)
TA 153 Contemporary Theatre and Film Performance (4)
TA 186 World Theatre I (4)
TA 187 World Theatre II (4)
TA 190 Internship (1-8)
TA 195 Seminar: Special Topics (2,4)
Up to 4 additional units of TA 150, and/or TA 160
Up to 4 additional units of APP 060/160 Film Production
ART 010 2-D Design (4)
ART 015 Drawing I (4)
ART 070 3-D Sculptural Explorations (4)
ART 131 Theory and Criticism in the Arts (4)
EB 080 Principles of Management (4)
ENG 101 Film Studies (4)
ENG 111 Screenwriting I (4)
ENG 112 Screenwriting II (4)
ENG 113 Screenwriting III (4)
ENG 117 Shakespeare (4)
ENG 183 Modern and Contemporary Drama (4)
FLM 030 Introduction to Digital Filmmaking (4)
FLM 130 Documentary Filmmaking (4)
England Semester (up to 8 units)
London Mayterm (up to 8 units)
MUA 070 Private Voice I (1)
MUA 170 Private Voice II (1)

Minor in Theatre Arts: 24 units

Required Courses: 20 units

TA 001 Great Literature of the Stage (4)
One of the following: (4)
- TA 010 Acting I (4)
- TA 051 Acting the Song (4)

One of the following: (4)
- TA 035 Costume Design (4)
- TA 036 Scenic Design (4)
- TA 037 Scenic Technology (4)
- TA 038 Lighting Design (4)
- TA 125 Directing for the Theatre (4)

TA 050/150 Rehearsal and Performance (2)
TA 060/160 Technical Production (2)

TA 120 or TA 121 History of Theatre I, II (4)
Elective: 4 units
Choose any of the following electives: (4)
TA 009 Voice and Speech Through Performance (4)
TA 011, 111 Acting II, III (4,4)
TA 035 Costume Design (4)
TA 036 Scenic Design (4)
TA 037 Scenic Technology (4)
TA 038 Lighting Design (4)
TA 051 Acting the Song (4)
TA 120 History of the Theatre I (4)
TA 121 History of the Theatre II (4)
TA 124 Survey of Dramatic Theory and Criticism (4)
TA 125 Directing for the Theatre (4)
TA 137 Design for Performance (4)
TA 140 Race and Gender on the American Stage (4)
TA 142 Global Theatre (4)
TA 145 Writing for Performance (4)
TA 153 Contemporary Theatre and Film Performance (4)
TA 186 World Theatre I (4)
TA 187 World Theatre II (4)
TA 190 Internship (1-8)
TA 195 Seminar: Special Topics (2,4)

Lower-Division Course Descriptions

TA 001 Great Literature of the Stage (4) An introductory course that studies masterpieces of the Western dramatic tradition, from the ancient Greeks to today.

TA 009 Voice and Speech Through Performance (4) An introductory voice and speech class through performance of classical, modern, dramatic, and non-dramatic materials.

TA 010 Acting I: Foundations (4) An introduction to the craft of the actor in preparing for performance. Students will develop technique in observation, sensory awareness, applied imagination, ensemble work, improvisation, and scene work.

TA 011 Acting II: The Body and Devised Theatre (4) Prerequisite: TA 010 or TA 051. Further investigation and exploration of the craft of acting. Focuses on developing the physical presence and generative spirit of the performer.

TA 035 Costume Design (4) An examination of the creative process of traditional theatrical costume design, covering theatrical theory, analysis, interpretation, and decision making involving basic design elements and principles.

TA 036 Scenic Design (4) An examination of the creative process of traditional theatrical design, covering theatrical theory, analysis, interpretation, and decision-making involving basic design elements and principles.

TA 037 Scenic Technology (4) Introductory course in theatrical scenery through an exploration of the visual world, drafting techniques, and construction methods.

TA 038 Lighting Design (4) An introduction to the theory, techniques, materials, equipment, and procedures employed in lighting design. Emphasis on developing creative solutions to production challenges. Includes laboratory experience.

TA 051 Acting the Song (4) An introduction to the craft of the actor and singer preparing for performance. Students will develop technique in character and style through the study of musical structure, lyrics, and tempo.

Upper-Division Course Descriptions

TA 111 Acting III: Acting Shakespeare and Clown (4) Prerequisite: TA 010 or TA 051. Advanced training in the acting craft. Focuses on the demands of heightened text, as well as the study of the clown.

TA 120 History of the Theatre I (4) An examination of the ways that history has been used on the stage from the Greeks to Shakespeare, and how history intersects with contemporary life.

TA 121 History of the Theatre II (4) An examination of the processes, methods, and practice of Acting and Directing, from Shakespeare to the present day.

TA 125 Directing for the Theatre (4) Prerequisite: TA 001, and TA 010 or TA 051. An introduction to the creative processes, practices, and methods important for theatrical directing.

TA 137 Design for Performance (4) Prerequisite: TA 035, TA 036, or TA 038. An advanced course in the practice of four-dimensional design including the processes of designing for performance events; the fundamentals and creative processes of 4D design; and a study of key practitioners in the field.

TA 140 Race and Gender on the American Stage (4) Study, exploration and creation of plays that examine issues related to American notions of race and gender.

TA 142 Global Theatre (4) Topics and Case Studies in Global Theatre that explore global interconnection, aesthetic hybridity, and cultural transformation from a Christian perspective.

TA 145 Writing for Performance (4) Students develop the basic principles of playwriting, do exercises designed to help them put those principles into creative practice, and are guided through the various stages of the playwriting process culminating with short plays they have completed.

TA 153 Contemporary Theatre and Film Performance (4) Prerequisite: TA-001, TA 010, or TA 051. Advanced training in acting and directing. Focuses on contemporary scene study and performance of texts from 21st century theatre and film.

TA 186 World Theatre I (4) Study of plays available in live production during an off campus program, with an emphasis on the literary. political, social, and historical nature of the theatre.

TA 187 World Theatre II (4) Study of plays available in live production during an off campus program, with an emphasis on the performative and interpretative nature of the theatre.

TA 190 Internship (1-8) Internships related to Theatre at a variety of employers. Supervised by a professional in the field and the department.

TA 193 Senior Project (2) Research and preparation of an in-depth paper on a selected topic in theatre and drama generated from a major course taken during the senior year or a final culminating project in acting, directing, creative writing, or design.

TA 195 Seminar: Special Topics (1-4) Seminar topics to be announced by department.

TA 196 Senior Seminar: Launchpad (4) Prerequisite: Junior or Senior standing. A capstone course for the major involving advanced study, readings, discussion, and projects related to the student's professional emphasis. Guest artists and additional topics included to help student in preparation for post-college vocational trajectory.

TA 199 Major Honors (4-6) In consultation with their faculty mentor the Major Honors candidate will develop and execute an advanced level independent research project, produce a fully documented research paper, and pass an oral examination on the research before a committee.

Applied Theatre Arts

TA 050/150 Rehearsal and Performance I, II (1-2) Prerequisite: permission of instructor. (Repeatable.) Active participation in a dramatic production of Westmont theatre arts.

TA 060/160 Technical Production I, II (1-2) Prerequisite: permission of instructor. (Repeatable.) Active participation in technical support of a dramatic production of Westmont theatre arts.

Writing Minor

Description of the Minor. The writing minor is designed to enhance students' knowledge of writing theories and expand their writing practices. As such, the minor can be a valuable supplement to many majors; it helps cultivate liberal arts inquiry and strengthens marketable skills. Although the minor is overseen by the English Department, the curriculum draws from disciplines such as art, history, communication studies, philosophy, and theatre arts.

Requirements for a Minor: 20 units

Required Courses: 8 units

ENG 104 Modern Grammar and Advanced Composition (4)
One of the following:
- ENG 006 Studies in Literature (4)
- ENG 007H First-Year Honors Seminar in Literature (4)
- ENG 045 Studies in Classic Literature (4)
- ENG 060 Writers in Conversation (4)
- ENG 090 Methods of Reading (4)

Electives: 12 units

ART/PHI 131 Theory and Criticism in the Arts (4)
COM 101 Theories of Rhetoric and Communication (4)
COM 103 Communication Criticism (4)
ENG 002 Composition (4)
ENG 014 Introduction to Creative Writing (4)
ENG 087 Introduction to Journalism (4)
ENG 111 Screenwriting I (4)
ENG 112 Screenwriting II (4)
ENG 113 Screenwriting III (4)
ENG 141 Creative Writing (4)
ENG 142 Workshop in Creative Writing (4)
ENG 143 Topics in Writing (2-4) **may be repeated as topics vary*
HIS 198 Senior Research Seminar (4)
TA 145 Writing for Performance (4)
No more than 8 elective units can be taken from the following:
- *APP/ENG 168 Student Publications: Horizon (1-4)
- *APP/ENG/IS 190/190SS Internship (1-8)
- *ENG 167 Writers' Corner (2)
- *ENG 169 Student Publications: Phoenix (1-2)
- ENG 192 Capstone Seminar (2)

*Courses with an asterisk may require the English Department chair's approval.

Off-Campus Programs

In pursuing its global plank, the community at Westmont College endeavors to recognize and appreciate how our lives are interconnected with those in our local neighborhoods and around the world. We aim to equip students to:

- understand major global challenges that span national and regional boundaries and affect local communities;
- recognize and accept responsibilities to address these challenges with justice, discernment, and Christ-like love;
- understand the systemic roots of transnational challenges such as poverty, inequality, security, and environmental sustainability;
- draw upon the knowledge and theories of multiple academic disciplines in thinking about global themes and issues;
- seek opportunities to work empathetically and collaboratively with both local and international communities;
- improve our abilities to live and work in intercultural settings and to strengthen intercultural relationships;
- enrich our imaginations, our life journeys, and our sense of discovery through engagement with other cultures, communities, and traditions;
- recognize the wide range of cultural communities among the followers of Christ and embrace the privilege of worshipping and serving in a church that reaches beyond borders.

For additional information and applications for programs, please visit our website at https://www.westmont.edu/global-education. A minimum 2.3 GPA is required unless otherwise noted. Students must also be in good standing with Student Life. Westmont financial aid (institutional grants, scholarship and loans) may be used for any semester-long Westmont operated off-campus program. However, Westmont financial aid may be used for one program only at a Westmont-approved affiliate (versus Westmont-operated) off-campus program.

Tuition for Westmont-operated and Westmont-approved off-campus programs is the same as tuition on campus (except in a few cases where tuition is higher than Westmont's tuition, in which case students are charged the higher amount). Other charges vary by program and are available through the Global Education Office. Students who participate in these programs through Westmont are considered to be Westmont students. Therefore, they retain their standing and class priority for returning enrollment and class selection. Although students are allowed to attend more than one program, in order to enroll in off-campus programs in consecutive semesters, they must submit a petition prior to applying.

Students who choose to access programs directly must withdraw or take a leave of absence and are not considered Westmont students during the period, do not have the support of the Financial Aid Office in obtaining financial aid from the program, do not receive any Westmont aid, including grants, scholarships or loans, are allowed to re-enroll at Westmont only as space is available during a subsequent semester, and must obtain their own transcripts from the programs when applying for graduate school or employment.

Types of Global Education Programs

Westmont Semester Programs

Westmont semester programs are semester-length programs led by Westmont faculty. Semester programs offer courses for specific majors as well as general education credits. Semester programs include locations such as Mexico, Uganda, Europe, England, and the Mediterranean. Westmont in San Francisco and Westmont Downtown are also considered Westmont semester programs.

Westmont Mayterm Programs

Westmont Mayterm and Summer Programs are short-term study excursions that often include both on-campus study and travel. Programs offering general education courses as well as programs offering major-specific curricula are available. A number of options are available in any given year; in the past, such programs have included offerings in Ecuador, India, Israel/Palestine, London, Vienna, Berlin, Jordan, Singapore, Turkey, and Jerusalem.

Affiliate Programs

Westmont students may apply to enroll for one semester in one of Westmont's approved affiliate programs operated by a wide variety of other national and international programs. Many of these programs are open to all students for general study, regardless of the student's major. In addition, Westmont has approved some programs that feature advanced study in a particular subject area, which are open only to students with a particular academic major or minor. A complete list and description of programs available to Westmont students can be found at www.westmont.edu/global-education. Students must first apply to the Office of Global Education for approval to participate in an affiliate program. Priority will be given to upper-division students and students whose major or minor requires global study. Please contact us at ocp@westmont.edu for further information or to schedule an appointment to learn more about the process.

Special Programs

While Westmont is unapologetically an undergraduate institution of liberal arts and sciences and not a professional school or university, we recognize that many students will come to Westmont for a short time and transfer to other institutions for professional training. Such students will find that we offer a full selection of pre-professional programs to guide their work at Westmont.

Pre-Law Program

Students gain admission to law schools largely on the basis of their scores on the Law School Admission Test (LSAT) administered by the Educational Testing Service as well as their overall grade point averages as undergraduates. While there is no single prescribed undergraduate program for students contemplating a career in law, they should develop analytical skills and writing proficiency to improve their test scores and prospects for admission to law schools. The study of law requires the ability to analyze issues for effective presentation in logical sequence, training in clarity of thinking, in depth understanding of writing, and a familiarity with the legal system. Students may acquire all these skills by pre-law preparation at Westmont. Students interested in pre-legal and law-related studies should consult the pre-law adviser who will work with individuals in planning schedules.

Pre-Health Program

Pre-Health students (including Pre-Medical, Pre-Nursing, Pre-Dental, and other Allied Health professions) should indicate their professional interest and consult the pre-health professions advisor when they enter Westmont. Most students interested in pursuing a pre-health profession find that biology, chemistry, kinesiology or psychology (neuropsychology) majors are excellent preparation. However, with careful planning, almost any major can be chosen and the student will still be able to complete their pre-health pre-requisite courses.

R.O.T.C.: Army

The military science curriculum is part of the Army Reserve Officer's Training Corps (R.O.T.C.) program at the University of California at Santa Barbara. The program leads to a commission as a second lieutenant in either the Regular Army, the National Guard or the U.S. Army Reserves. Enrollment is open to qualified male and female students at Westmont College. Students must arrange for their own transportation to attend R.O.T.C. classes at UCSB (see transportation details noted below).

The R.O.T.C. program is divided into two parts: (1) two years of lower-division subjects, the Basic Course; and (2) two years of upper-division work, the Advanced Course, which is for selected students. The Basic Course classes are open to all interested students. No military obligation is incurred by taking these courses. Students must complete six lower-division military science courses before they can be considered for the Advanced Course. Westmont College only grants credit for the upper-division,

advanced courses and the grades for these courses are included in the Westmont GPA calculation. Westmont will also waive one PEA General Education required course for every full year of R.O.T.C. participation (up to two PEA courses total).

Students selected for the Advanced Course attend a 37-day advanced camp between their first and second year of Advanced R.O.T.C., normally between the junior and senior years of college. Each student is given a travel allowance, and is paid for their time attending Advanced Camp. Upon obtaining a baccalaureate degree, students may be commissioned as second lieutenants in the U.S. Army. Graduates are eligible for either active duty (full time) or part time duty with the National Guard or the U.S. Army Reserves. National Guard or Reserve duty begins following a three to six-month active duty commitment to attend their Officer's Basic Course.

All R.O.T.C. instructors can advise students on academic matters, the R.O.T.C. program, and financial aid. In addition, the R.O.T.C. enrollment counselor is available for discussion of special options such as the two-year program and the scholarship program. There are two, two-and-a-half, and three-year scholarships available. Several publications, including brochures and fact sheets, are available in the department office located in Building 451 Mesa Rd. on the UCSB campus. These brochures explain the scholarship application process and the various deadlines. The Department of Military Science telephone number is (805) 893-ARMY(2769). Their website may be found at http://www.milsci.ucsb.edu/

Military Science courses at UCSB for Westmont credit are:

MS 131 Tactical Leadership (1.33)
MS 132 Tactical Leadership II (1.33)
MS 133 Applied Leadership (1.33)
MS 141 Developmental Leadership I (1.33)
MS 142 Developmental Leadership II (1.33)
MS 143 Adaptive Leadership (1.33)
MS 190 Advanced Military Science Field Study (2.67)

Westmont will also waive one PEA General Education required course for every full year of R.O.T.C. participation (up to two PEA courses total).

It is highly recommended that the R.O.T.C. student complete PHI 113 Contemporary Moral Problems or COM 133 Conflict and Reconciliation at Westmont to complement the courses taken in the ROTC program.

R.O.T.C.: Air Force

Through arrangements with Loyola Marymount University (LMU) in west Los Angeles, students may participate in the Air Force Reserve Officer Training Corps (AFROTC) program. Aerospace Studies classes and Leadership Laboratories are conducted on Fridays at the LMU main campus.

A.F.R.O.T.C. offers a variety of two, three and four year scholarships, many of which pay the full cost of tuition, books, and fees. Successful completion of as little as four semesters of A.F.R.O.T.C. academic classes and leadership laboratories can lead to a commission as a second lieutenant in the United States Air Force.

Classes consist of one hour of academics and two hours of laboratory for freshman and sophomores; three hours of academics and two hours of laboratory for juniors and seniors. A.F.R.O.T.C. cadets under scholarship and all juniors and seniors receive a monthly tax-free stipend and a textbook allowance. No military commitment is incurred until entering the last two years of the program (Professional Officer Course) or accepting an A.F.R.O.T.C. scholarship.

Military Science courses at LMU for Westmont credit are:

AS 301 Leadership Studies (3)
AS 401 National Security, Leadership Responsibilities and Commissioning Preparation (3)

Westmont will also waive one PEA General Education required course for every full year of R.O.T.C. participation (up to two PEA courses total).

For more information, contact the Loyola Marymount University Department of Aerospace Studies at (310) 338-2770.

First-Year and Sophomore Student Transportation to Westmont-sponsored special R.O.T.C programs

Because the R.O.T.C. Army program through UCSB and R.O.T.C. Air Force program through USC, UCLA, and Loyola Marymount University are Westmont-sponsored special programs, the college will ensure that first-year and sophomore students have transportation to their respective program locations. This provision is made because of restrictions in the issuance of parking permits to first-year and sophomore students. Westmont accomplishes this by the following means:

1. If a junior/senior is attending the program at the same time and has a vehicle, the college will connect the underclassmen with those with transportation.
2. If no juniors or seniors in the R.O.T.C. programs have their own transportation, Westmont will loan a college vehicle for the student to drive to the program site. The student will pay for the gas used, but vehicle rental charges will be covered by the college.

Please contact the Housing Office for more information.

Certificate in Theological Leadership

The post-baccalaureate Certificate in Theological Leadership is designed for ministry professionals, laypeople eager to grow spiritually, and recent college graduates considering seminary. This program is a 4-semester program with two courses taught in a hybrid format each semester. Whether students pursue the certificate as a terminal experience or apply the credits earned to graduate education, the certificate program will connect them with churches and leading seminaries throughout the country.

Classes include:

An Introduction to the Old Testament: The Wisdom of the Ancients (3)
Reading the New Testament for Wisdom (3)

Theology for Discipleship (3)
World Christianity: Leadership in Global Context (3)
Culture and Theology: Thinking Missionally (3)
Theological Ethics: Christian Perspectives on Contemporary Issues (3)
Theological Principles of Leadership (3)
Soul Care: Learning to Thrive in the Presence of God and Others (3)

Student Life

Community Life Statement. *Living in Community.* When Jesus Christ summed up the way His followers were to treat each other, He said, "love one another as I have loved you" and "love your neighbor as yourself." On a college campus, this kind of love must take into consideration the relationship between learning and community.

Affirming the qualities of this relationship is vital. As students, staff, and professors learn to live together, we recognize the dual manifestations of love in justice and mercy. We attempt to work out what it means to live justly and mercifully in common agreements such as this one. We understand that life in a college will give priority and honor to the wise development of the mind.

Given this focus, our social and intellectual growth needs freedom for exploration complemented by a commitment to good will and graciousness. Personal discipline is also required. For example, civility is basic to all types of community, while academic honesty and respect for education are fundamental to an instructional environment.

Learning depends on truth-centered attitudes. It thrives in an atmosphere of discriminating openness to ideas, a condition that is characterized by a measure of modesty toward one's own views, the desire to affirm the true, and the courage to examine the unfamiliar. As convictions are expressed, one enters into the "great conversation" of collegiate life, a task best approached with a willingness to confront and be confronted with sound thinking.

Community is built upon other-centered practices. It flourishes in a place where love for God and neighbor is cultivated and nurtured. It grows strong when members practice integrity, confession, and forgiveness, attempt to live in reconciled relationships, accept responsibility for their actions and words, and submit to biblical instructions for communal life.

Scripture supports these attitudes and principles. It recognizes that all humans are created in the image of God and that God is the giver and taker of life, from the beginning of life to its end. It teaches us to value human presence, celebrate human creativity, and promote relationships based on the ideals of trust, compassion, and forbearance, and praises actions that manifest sacrificial giving and sincere faith. Scripture also forbids attitudes such as pride and jealousy, and prohibits such actions as drunkenness, sexual promiscuity, and dishonesty. In keeping with these standards, the Westmont community has agreed to certain guidelines in the Student, Staff, and Faculty Handbooks.

Desiring to implement the teachings of Christ, Westmont encourages true fellowship, in the whole body of Christ, including the local church, for when we love each other we imitate Christ's love for us. As we seek to follow God in truth, certain choices make for greater peace: a respect for others as they make decisions contrary to ours, a readiness to listen carefully to those who represent situations or cultures unfamiliar to us, and a concern for how our preferences affect the lives of those around us.

We are committed to inquiry as well as pronouncement, rigorous study as well as kindred friendship, challenging teaching as well as reflective learning. Sometimes these tensions will lead to conflict. To live in unity, we must set ourselves to the practical task of discerning daily how to love well, how to inflesh the biblical call to justice and mercy.

As we do so, our life together at Westmont will begin to resemble the community God has envisioned for us.

Behavioral Expectations. The Westmont community chooses, freely and willingly, to impose upon itself rules for behavior which serve both the long-range interests of the institution and the immediate good of its individual members. While we do not view these expectations as an index to maturity in Christ, we do regard violations as a serious breach of integrity within the community because each member has voluntarily chosen to associate with it and to accept its standards.

Consistent with scripture, the College establishes the following specific expectations for the trustees, administration, faculty, staff, and students of the Westmont community:

1. The College does not condone practices that Scripture forbids. Such activities include but are not limited to occult practices, drunkenness, theft, profanity, dishonesty, and sexual relations outside of marriage. Westmont further recognizes that Scripture condemns "sins of the spirit" such as covetousness, jealousy, pride, and lust. By their very nature, these sins are more difficult to discern. Because they lie at the heart of the relationship between the individual and God they are of central concern to the Westmont community.
2. The College upholds integrity as a core value of the community. Members are expected to take responsibility for their own violations of all behavioral guidelines and demonstrate commitment to the value of integrity in word and deed.
3. The College is committed to providing a learning and work environment free of harassment.
4. The College expects our members who choose to marry to abide by the commitment to lifelong heterosexual marriage, and whether single or married, to strive to maintain healthy family relationships.
5. The college upholds the laws of the local community, the nation, and the state of California that prohibit the possession or use of illegal drugs or drug paraphernalia, against purchasing or consuming alcoholic beverages by persons under the age of 21, drunkenness, and driving under the influence of alcohol.
6. The College recognizes that the use of tobacco products and alcoholic beverages presents a danger to personal health. It condemns their abuse, and raises questions about the use of tobacco and alcohol. Under no circumstances shall any member of the community use or possess these products on campus or when attending a college-related student activity.

Westmont will establish other rules and regulations necessary for orderly community life and will list them in appropriate handbooks. You will find information which further explains the specifics of the Behavioral Expectations above in the section of the Student Handbook on Westmont policies.

Westmont requires all of its guests during their time on campus to act in ways that are consistent with Westmont's mission-based behavioral expectations for community life.

Campus Pastor's Office. Because loving and worshipping God is at the heart of who we are as a community, the Campus Pastor's Office leads regular Chapel services bringing the Westmont community together to love and glorify God through prayer, music, and teaching from the Word of God. The Campus Pastor's

Office invites members of our community and other outstanding speakers throughout the year to expose Westmont to the global church. Through a variety of styles and liturgies, we participate in worship alongside the Church across the world and throughout time.

Westmont College views Chapel as an integral part of the liberal arts educational experience; therefore, Chapel attendance is mandatory. Chapel is held three times a week on Monday, Wednesday, and Friday from 10:30-11:20 a.m.

Additionally, the Campus Pastor's Office is available for spiritual nurturing, counseling, conversations, and impromptu games of catch. Yes, the Campus Pastor always has 2 gloves and a ball ready for anyone who wants to "have a catch." We offer spiritual guidance and encouragement through programs as well as informal settings to the entire Westmont community.

***T*he Campus Life Office.** The Campus Life Office seeks to cultivate life-long Christian leaders by providing students with relevant co-curricular programs, services and engagement opportunities that strengthen their integrity, faith and commitment to thoughtfully serve others. The CLO is responsible for Student Organization Advising, Leadership Development, Orientation and the First Year Experience, Campus Activities and Programs, and student Ministry and Outreach.

Those involved with the CLO are responsible to advise, mentor, empower and support many of our student leaders. The groups they represent include the Westmont College Student Association (WCSA), the Westmont Activities Council (WAC), Spring Sing, the Orientation leaders (O-Committee and O-Team), the Potter's Clay spring break service trip to Mexico (PC), Urban Initiative (UI) and the international summer missions teams (Emmaus Road). All student leaders involved in these organizations participate in a one unit applied studies leadership course (APP-062), including organizational discussion, leadership trainings, and assigned reading in combination with a student leadership role.

The CLO helps students navigate their beginnings at Westmont through the Orientation program, a first-year adventure day and other new student programs. Orientation welcomes new students to campus and transitions them to their new environment. In the Orientation process, students learn about the expectations and distinctives of a Westmont liberal arts education. First year students demonstrating leadership potential are invited to apply for the Westmont Leadership Development Program (WLDP) which runs for three months from December through February.

Finally, the CLO initiates creative programming in complement to the college mission on topics that impact the Westmont student experience.

Intercultural Programs (ICP). Our office is committed to engaging the Westmont community through dialogue and initiatives around multicultural identity. We specifically focus on the exploration of racial, ethnic, and cultural identity. Believing that the call to be a redemptive and diverse community is rooted in scripture and evident in God's creation, we provide resources and support to encourage open dialogue and to develop multicultural awareness and intercultural competence. We are committed to educating our campus on the historical and current realities and benefits that come with diversity, to supporting students of color for their social and academic success, and to celebrating our different heritages and cultures for all to enjoy and

appreciate. In addition to celebration, we also look to engage in educational and developmental learning around racial and ethnic identity within our society.

There are a variety of ways to get involved such as joining an Intercultural Organization (ICO), e.g. Asian Student Association, Black Student Union, Global and International Student Association, Latine student union, Multi-Ethnic Student Association, and white students for racial justice. Our office hosts fun and educational events around race, culture, diversity, and justice throughout the year.

***R*esidence Life**. As a residential college, students have many opportunities to reflect on decision-making and issues that result in growth in Christ. The residence experience also contributes to an appreciation for differing points of view and an understanding of one's contribution to the immediate community and society at large.

The residence life staff at Westmont is committed to fostering an environment that helps students continue maturing as adults. This is an important time for students to increase their knowledge and understanding of themselves and to learn how to cope with stress and the demands of academic life in a healthy way. It is also important that students learn to develop and sustain fulfilling interpersonal relationships.

Residence halls at Westmont are designed to be challenging, fun, and healthy places to live. Students are encouraged to participate actively in their living group and to engage fully in creating an environment that is conducive to personal, spiritual, and academic growth.

***H*ousing**. Every Westmont student must have an approved housing assignment, including off campus, in order to attend the college. Only a limited number of students are granted permission to live off campus.

The Housing Office provides services related to both on and off campus housing, meal plans, and student parking permits. Incoming students are matched by Residence Life staff, in consideration of stated preferences on the housing application. Returning students choose their room and roommates during housing sign ups.

The Housing Office is responsible for all residence hall furnishings and works closely with Residence Life and the Physical Plant to ensure a comfortable and secure living environment. Lounge furniture, kitchen appliances, laundry machines and recreational equipment are provided in each hall.

COVE Career Center. To assist our students and graduates in navigating the path from college to career or graduate school with competence and confidence, The COVE Career Center (Career opportunities and Vocational Exploration) educates students about exploring career options and making decisions in the context of Christian worldview.

Graduates with a liberal arts and sciences degree have many choices and opportunities and, therefore, benefit by taking advantage of career services as they progress through their education. The COVE Career Center equips students by helping them understand their own strengths, make informed decisions about majors, and begin to explore vocational alternatives. Students can utilize multiple assessments to better understand and articulate their interests and personality traits. Additionally, students can benefit from one-on- one coaching or in-class workshops to develop job search strategies, resume writing, interviewing skills, and graduate school investigation.

Students may meet individually with a counselor at any time to assess their values, interests, personality style, and skills relative to vocational choice.

The COVE Career Center maintains an active job posting system for full-time, part-time, off-campus, work-study, internships, and summer employment opportunities.

College officials encourage students to use career planning services even if they feel certain about the vocation they wish to pursue. The program helps students gain the most from their education, make informed choices that integrate their goals for life and work, and develop a vision for contributing to society.

Student Health Service. Access to services provided by the health care team, which consists of a full time physician as well as a Women's health provider, is covered by a mandatory health fee. We are a full service primary care clinic, providing care to students who are ill or injured. We make referrals to medical specialists as needed. The Health Center staff all have a special interest and training in working with college students. We strive to teach students to partner with health care professionals in navigating healthcare systems and taking responsibility for their own health needs. The Health Center is open weekdays during Fall and Spring semesters and during Mayterm for limited hours.

Counseling and Psychological Services (CAPS). The mission of CAPS is to come alongside students in their process of becoming healthy adults, offering them a place to receive both nurture and challenge. CAPS provides individual and group therapy, ADHD and ASD assessment, parent / faculty consultation, and general programming on campus to foster student well-being.

A variety of student concerns may be addressed in therapy, including the following: stress, anxiety, depression, identity and self-worth, family issues, challenges related to ADHD, ASD and/or other neurodivergent conditions, separation/transition issues, spiritual concerns, interpersonal relationships, loneliness, loss and grief, suicidal thoughts, substance abuse, addictions (sex, pornography, alcohol, drugs), sexual assault, trauma, eating issues, pregnancy, gender/sexual identity issues, communication skills, decision making, and other mental health concerns.

The therapists are professionally trained, licensed, and caring individuals who have a deep commitment to their Christian faith. Except as required by law, all information shared in the counseling sessions is confidential. CAPS is located on lower campus across the parking lot from Van Kampen Residence Hall. Most services are covered by student fees. More information and resources can be found on the Westmont Counseling and Psychological Services website.

Student Activities. *Student Government.* The Westmont College Student Association (WCSA) is made up of the elected student representatives for the college community. WCSA is the student body voice to the Westmont community as a whole and actively pursues change in response to the expressed interests of our students. WCSA supports and provides financial accountability for campus organizations and offers supplemental funding for campus events and projects. The student government oversees a program series called Conversations That Matter to promote dialogue on important issues. WCSA seeks to utilize a responsible leadership structure with an emphasis on academic, communal and spiritual growth. The Campus Life Office advises WCSA.

Student Programs. The Westmont Activities Council (WAC) works closely with the Campus Life Office to plan social events for students. WAC sponsors dances, concerts, coffee houses and many other exciting campus-wide events.

Student Ministry and Outreach. Emmaus Road (ER), Potter's Clay (PC) and Urban Initiative (UI) organizations encourage and facilitate student ministry and outreach opportunities in Santa Barbara, LA, San Francisco, and around the globe. The Campus Life Office advises these organizations.

Athletics. The Warrior athletic program is a vital component in fulfilling Westmont's commitment to a strong liberal arts and sciences education. The College provides intercollegiate competition that combines a national level of excellence with a perspective that reflects and interacts with the person and precepts of Jesus Christ. This provides a unique experience for the athlete. Westmont will be entering its third year as provisional members of the PacWest Conference in the NCAA Division II. Outstanding programs exist for both men and women in cross-country, golf, track and field, soccer, tennis, and basketball. In addition, the College offers baseball for men and swimming and volleyball for women.

In all programs, determined student-athletes and dedicated coaches have worked together to achieve an outstanding record of success—measured not merely by win-loss records, but chiefly by the positive impact on the lives of the participants. Over the years, several teams have experienced the pride of being nationally ranked or the excitement of winning a championship. Yet it is often the overall personal growth of a Westmont athlete which is most dramatic.

Westmont athletics provide other opportunities for growth. Many athletes use their competitive experience to participate in international tours and short-term ministries such as Athletes in Action and Sports Ambassadors. In some instances, Westmont athletes have had the opportunity to enter professional athletics after graduating.

Westmont athletic teams have a long history and tradition of success. Warrior Athletics will always be a strong part of the College's educational program.

Westmont Intramural Sports Program. The intramural department offers 3-4 sports per semester during the evening hours of 9-11 pm in Murchison gym. These may include basketball, volleyball, indoor soccer, dodgeball, capture the flag, spikeball, and tchoukball. The program is designed to promote physical activity and social interaction among students in an organized setting. Intramurals are a very popular way to spend weekday evenings. About 25% of the Westmont community participates in the program each semester. Come join the fun!

Commencement Participation Policy. Participation in graduation ceremonies is a celebration of work accomplished and is reserved for those students who will complete all degree requirements by the end of the spring semester. An exception to participate in commencement will be made if a student can complete their remaining degree requirements in Mayterm. In these cases, students must be registered in the appropriate Mayterm classes by March 15.

In extenuating circumstances only, a student may petition the Academic Senate Review Committee for an exception to this policy. The petition must be submitted to the

Student Records Office by March 15 and will be reviewed according to the following guidelines:

1. The petition must explain the extenuating circumstances that prevent the student from completing degree requirements at the end of spring semester or Mayterm.
2. The petition must include a written plan demonstrating how the requirements will be met during the summer immediately following the graduation ceremony.
3. The plan may include a maximum of eight (8) pre-approved units to be completed after commencement.

Students who exit Westmont at the conclusion of fall semester (December) will be allowed to complete a maximum of eight (8) pre-approved units during the following spring semester away from Westmont to complete remaining degree requirements and to be eligible to participate in commencement.

Degrees for Mayterm candidates are conferred as of June. Degrees for summer candidates are conferred as of August. Degrees will not be awarded until work is completed and grades are recorded and computed.

Name and/or Sex Identifier Change and Official Records.

Diplomas are issued in the legal last, first and middle name of record at the time the degree was awarded.

The college will issue official transcripts in the legal last, first and middle name of record at the time the transcript is requested. Individuals who wish to have a new legal name or sex identifier reflected in their official record with the college must submit to the Student Records Office a copy or government-issued photo identification bearing their former name and/or sex identifier and one or more of the following documents: 1) social security card, 2) court order granting the name change and/or updating the sex identifier, 3) birth certificate showing the updated name or sex identifier, or 4) government-issues photo identification showing the name and/or sex identifier. The current legal last, first and middle name will be displayed as the name on the official transcript and the former legal last, first and middle name will be displayed as the Other Name. Students may petition for exceptions to this policy.

The college will maintain record of all names and sex identifiers formerly used for disclosure to college officials with legitimate educational interest in the information or when required to by subpoena or other lawful court order. Consistent with the European Union's General Data Protection Regulation, in some instances, affected students and alumni may have the right to erasure or restricted processing of their information. If you believe this right is applicable to you and you wish to exercise it or have questions, please send your request or inquiry to GDPRcompliance@westmont.edu.

Applying to Westmont

Westmont selects candidates for admission from students who demonstrate preparedness for the academic stimulation and spiritual vitality central to Westmont's character and community. We seek applicants who:

- Place a high priority on undergraduate education and living and learning in a classic liberal arts environment.
- Embrace the Christian mission of the college.
- Desire to benefit from participating in and contributing to this community.
- Possess a strong moral character, values, personal integrity, and an altruistic, others-centered posture that aligns with the Westmont mission.

Recognizing the importance of peers in shaping a learning environment, Westmont pays attention to the emerging character of each class as a whole. The college considers these criteria when reviewing each applicant:

- The strength of the high school academic record as reflected in the academic/honors grade point average.*
- Academic aptitude as reflected in SAT, ACT, or CLT scores (optional).**
- Strength of the academic program (Honors, AP, or IB), and rank in class.
- Desire to attend a faith-based college.
- Cultural competency, which may be conveyed through unique cultural experience.
- Diversity in background and cultural and global experiences
- Evidence of core values such as exemplary character, honesty, respect, compassion, and service.
- Essays that reflect a clear self-understanding and goals for a college education.
- Special skills in the creative and performing arts, athletics, science, journalism, or other academic areas.
- Personal interests and aspirational pursuits.

**The Office of Admissions recalculates the grade point average of each applicant and considers the overall average, the average in academic courses, and the average that includes honors, advanced placement or high level international baccalaureate courses.*

*** The writing portions of the SAT and ACT are used for class placement, and not for admission purposes.*

Final decisions for admission reflect an evaluation of the entire application, so submit accurate and complete information when you apply and let us get to know you well. Your personal story is important to us!

Interviews and Campus Visits. Enhance your knowledge of Westmont by visiting one of the most beautiful college campuses in the country. You can interview with an admissions counselor, visit classes, attend chapel, meet with professors and coaches, and spend a night in a residence hall. Seeing Westmont for yourself and experiencing our caring community will help you gain insight if this is the best-fit college for you. Please schedule a visit on our website, westmont.edu/visit, or

contact the Office of Admissions at admissions@westmont.edu or 800-777-9011 or 805-565-6200.

**Prospective athletic recruits will not be able to meet coaches during an NCAA "Dead Period" in the recruiting calendar. If meeting with a coach is a priority, students should contact coaches prior to visiting campus to make appropriate arrangements.*

Who are the best-fit Westmont students?

- They are high performing, but don't chase perfection.
- They behave with integrity and an open mind.
- They enjoy the rewards that come from taking on challenges.
- They value unique perspectives, backgrounds, talent, and knowledge.
- They believe in a well-informed and well-tested Christian faith.
- They feel unafraid to ask and answer questions that are difficult or uncomfortable.
- They seek vocation, significance, community, and justice.
- They seek to model a life of service, leadership, and impact.

How to Apply for Admission

First-Year Students

EARLY ACTION. Are you a high school senior with a strong record who considers Westmont a top choice? Select an Early Action plan and receive a decision quickly so you can begin planning for your first year at Westmont. Unlike other early decision plans, which require you to enroll if admitted, **EARLY ACTION allows you to review your options before confirming your enrollment**. Candidates not accepted for EARLY ACTION may be reconsidered for admission under REGULAR DECISION, which gives you time to submit additional materials to strengthen your application, such as fall semester grades, additional SAT, ACT, or CLT results, and/or interviews.

AUGUSTINIAN SCHOLARS PROGRAM. First-year students interested in competing for the Augustinian Scholarship **must** apply under an EARLY ACTION plan to be considered. Candidates are selected by a college committee and enter the pool of consideration by invitation only. See more information about this program by visiting our website.

PRIORITY DECISION. Candidates who did not apply for EARLY ACTION have ample time to apply for admission under the PRIORITY DECISION plan. **All academic merit scholarships**, with the exception of the Augustinian Scholarship, are available to PRIORITY DECISION applicants meeting the qualifications.

REGULAR DECISION. Applications received after the PRIORITY DECISION deadline will be considered on a space-available basis.

Academic Requirements. All first year applicants are required to have a minimum of sixteen (16) academic units of credit to include:

- 4 years of English.
- 3 years of Science; two years of laboratory science.
- 3 years of Mathematics, including at least second-year algebra (algebra I taken in eighth grade may be considered).
- 2 years of one Foreign Language, 3 years recommended (year one taken in eighth grade is accepted; American Sign Language will be accepted for admission, but it will not satisfy Westmont's general education language requirement).
- 2 years of Social Science: history, government, sociology, political science, economics, psychology, civilization, geography.
- A minimum of 2 strong Academic Electives.

Exceptional applicants not meeting one of these standards may be granted conditional admission provided they make up the deficient course(s) at a community college or similar institution.

GUARANTEED ADMISSION PARTNERSHIPS. Westmont recognizes that many students are enrolled high schools across the country and around the world that share our philosophy of academic rigor, our commitment to the Christian faith and investment in whole-student development. We are proud to share this mission with our secondary education partners, and we're please to guarantee admission to students meeting high standards from select schools. Students admitted under these standards are also guaranteed a minimum of $15,000 in institutional scholarship.

To see admission guidelines for these partnerships, along with a list of current institutional partners, visit the Westmont website. To explore partnerships for your own high school, contact the Admissions Office.

Transfer Students

Westmont welcomes transfer students and invites them to begin their Westmont experience in either the fall or spring semester. Students may begin the transfer process at any time during their college experience. Applicants who have completed fewer than 24 semester units (36 quarter units) must submit official high school transcripts. Merit scholarships based on GPA will be awarded during the application process and transfer students will be informed of the scholarship amount in the acceptance notification. Please see our website for the levels of merit scholarships and amounts.

Applicants transferring from an accredited college or university will receive credit for transferable courses for which they earned a grade of C- or better. Courses with "P"

grades will be accepted for elective credit, only if the transcript indicates that a "P" grade is equivalent to a "C-" grade or higher. Courses with "P" grades will **not** be applied to general education or major/minor degree requirements with one exception: physical education/activity courses with a "P" grade will be applied to Westmont's Physical Education Activity (PEA) general education requirement providing the "P" grade is equivalent to a "C-" grade or higher. The coursework must be submitted on an official transcript. Receiving credit for a course does not necessarily mean that an academic department will apply that course to the fulfillment of a major requirement or that the Student Records Office will apply the course to the fulfillment of a general education requirement.

Following the offer of admission, the Westmont Student Records Office will make a thorough evaluation of completed coursework as it applies to the general education requirements and the overall graduation requirements. Evaluations will be completed only after receipt of an official transcript.

Westmont may restrict credit from a non-accredited institution and may, at the discretion of the Registrar, require validation through enrolling in a related course at Westmont and receiving a minimum grade of "C-", or through an examination. Students must validate courses during their first year of residence at Westmont.

The College does not award credit for courses taken more than 25 years ago. Westmont limits transfer units from a community college to 64 semester units.

Prospective student athletes admitted to Westmont as transfer students are not guaranteed NCAA athletic eligibility. Students should work with their respective coach and the Associate Athletic Director for Compliance to determine athletic eligibility.

Certificate Students

Westmont offers a certificate in Theological Leadership. The program is designed to introduce students to core biblical and theological principles related to leadership in a wide variety of vocational areas, including Christian ministry applications. This post-baccalaureate program may be taken independently or as an introduction to further seminary study. Credits earned in the Theological Leadership program may be transferred to select seminaries where memoranda of understanding exist. Courses are taught in a hybrid format, utilizing in-person and online modalities. Four bi-annual spiritual retreats are included in the curriculum. For details, consult westmont.edu/theo-leadership.

Steps Required for All First-Year and Transfer Applicants

1. Complete the Westmont application (application.westmont.edu) or the Common Application (commonapplication.org).
2. For first-year applicants, request an official high school transcript for all courses from ninth grade to the present be sent to the Office of Admissions. For transfer students, send official college transcripts for each college attended. If, as a transfer student, you have yet to complete 24 semester units (36 quarter units) at the time of application you must also send official high school transcripts. Admission decisions will only be

made with official transcripts. If you are taking any high school or college work when you apply, you must submit an additional final transcript when the work is complete. Not receiving FINAL official transcripts will impact your registration for classes and could affect your admission to the college.

3. Applicants must submit recommendations as instructed through the application process.
    - The letter must be from a teacher or professor in a core course or from an advisor or counselor.
    - Character references are recommended from pastors, youth leaders, employers or friends, but they can't be used as a substitute for an academic recommendation.
4. Highly Recommended: Request that the results of the SAT, ACT, or CLT be sent to the Office of Admissions. Test scores provide an academic assessment that often raises the opportunity of being considered for the highest merit scholarships available.

Application Deadline and Notification Dates

FIRST-YEAR STUDENTS FALL ENROLLMENT DEADLINES

Early Action *(Fall Only)*
Required for Augustinian Scholarship Consideration

Early Action I
October 15 Application Deadline
Notifications released by mail by December 1

Early Action II
November 1 Application Deadline
Notifications released by mail by January 1 or sooner

Priority Decision
January 15 Priority Application Filing Deadline
February 15 Notifications begin and continue on a rolling basis

Regular Decision
Considered on a space-available basis
Notifications released on a rolling basis

Transfers, Consortium Visitors, Reapplicants
March 15 Preferential Application Filing Deadline
Notifications released on a rolling basis

Spring Semester for Transfers, Consortium Visitors, Reapplicants
Given the limited space available, applicants must adhere to deadlines.
November 1 Application Deadline
Notifications released on a rolling basis

Note: All dates are submission/postmark dates. Applications for Regular Decision may be submitted after the deadline dates, but Westmont can't guarantee they'll be given the same consideration as those submitted on time. After these dates, the Office of Admissions will process applications on a space-available basis. Send electronic copies of application materials to admissionsdocs@westmont.edu. Mail hard copies of application materials to:

Office of Admissions
Westmont College
955 La Paz Road
Santa Barbara, CA 93108-1089

Academic Scholarships

Augustinian Scholars Program. The Augustinian Scholarship, which covers 75 percent of tuition, is a four-year award offered to exceptionally high-achieving first-year students who apply for admission to Westmont under an Early Action plan. Students are selected as Augustinian Scholars because they embody the personal and spiritual qualities the college upholds and demonstrate a clear commitment to the Christian liberal arts. It's the highest academic honor an incoming student may receive.

Students interested in the Augustinian Scholars program MUST apply under the Early Action I or Early Action II application plans. Candidates are selected by a nominating College Committee following the Early Action process and invited to attend an Augustinian Scholars weekend, which take place in January and February. As long as scholars maintain a 3.25 GPA (3.0 if enrolled in two or more honors classes per year), they receive the scholarship for eight consecutive semesters on campus or in Westmont sponsored programs off campus.

Academic Merit Scholarships. These scholarships are awarded to entering first-year students and transfers who meet the specified criteria. Academic merit scholarships are based on a combination of the high school academic weighted GPA and SAT, ACT, or CLT scores (optional) for first-year students and the college academic GPA for transfers. **IMPORTANT**: **Awards are based on the academic information submitted to the Office of Admissions when the application is complete and will not be changed once an award is made, even if subsequent grades or test scores are higher than those previously submitted.** Awards are renewable each year provided the student maintains the required Westmont cumulative grade point average. Grades are reviewed for continued eligibility at the end of the Spring/Mayterm semester.

These scholarships are awarded upon admission and students are notified in the Offer of Admission. **These awards are available to all students meeting the requirements under all application plans.**

First-Year Academic Scholarships*

Always check the Westmont website for any changes or updates

Augustinian Scholarship

- 75% of tuition for four consecutive years (competitive)
- Requires maintaining a Westmont GPA of 3.25 or higher; 3.0 if enrolled in two or more honor classes per year.

President's Scholarship

- $25,000 per year**
- Requires maintaining a Westmont GPA of 3.25 or higher; 3.0 if enrolled in two or more honor classes per year.

Ruth Kerr Scholarship

- $23,000 per year**
- Requires maintaining a Westmont GPA of 3.0
- Ruth Kerr Scholars are eligible for honors classes with permission from the Office of the Provost.

Wallace Emerson Scholarship

- $21,000 per year**
- Requires maintaining a Westmont GPA of 3.00

Founders Scholarship

- $18,000 per year**
- Requires maintain a Westmont GPA of 2.75

Warrior Academic Award

- $15,000 per year**
- Requires maintaining a Westmont GPA of 2.0

**Listed amounts are for fall 2025 and spring 2026 and are subject to change in future years for new students.*

***All academic scholarships are fixed amounts at the time of admission.*

Transfer Academic Scholarships*

Transfer President's Scholarship

- $20,000 per year**
- Requires maintaining a Westmont GPA of 3.25 or higher; 3.0 if enrolled in two or more honor classes per year.

Transfer Ruth Kerr Scholarship

- $15,000 per year**
- Requires maintaining a Westmont GPA of 3.0
- Ruth Kerr Scholars are eligible for honors classes with permission from the Office of the Provost.

Transfer Founder's Scholarship

- $12,000 per year**
- Requires maintaining a Westmont GPA of 2.75

**Listed amounts are for fall 2025 and spring 2026 and are subject to change in future years for new students.*

***All academic scholarships are fixed amounts at the time of admission.*

National Merit Scholarships. Westmont is a sponsor of the National Merit Foundation and awards up to $2,000 to National Merit Finalists. Students who are selected as National Merit Finalists may receive the Westmont Merit Scholarship if they notify National Merit that Westmont College is their first choice. The Westmont merit scholarship may be applied toward tuition as well as room and board on campus.

Additional Scholarship Opportunities. Scholarships are also available in athletics, art, engineering, physics, mathematics, theatre and music. Applicants interested in these programs must contact the respective departments and follow the instructions for applying and meeting deadlines that are available on the web pages at westmont.edu.

Additional Admission Opportunities

Home-Schooled Students. Westmont encourages applications from home-schooled students and recognizes the individual and unique talents and qualities they bring to the Westmont community. The college evaluates home-schooled applicants on their individual merit and specialized programs and requests a Certificate of Completion of the home-study program and proof that the state where the student lives recognizes the program. Because the curricula of home-schooled students vary depending on the particular program, the Office of Admissions may place greater emphasis on standardized test scores (the SAT, ACT or CLT). If a home-schooled student has enrolled concurrently in a college or university for additional classes before completing the home-study program, Westmont requires an official transcript from the institution(s) to apply appropriate credit. Home-schooled students may qualify for the same merit-based scholarships awarded to traditional high school graduates.

If a home-schooled student is applying for federal financial aid, the State Department of Education requires them to satisfy the *Ability to Benefit* requirement to qualify. Please visit our website for a complete list of tests that will satisfy this requirement.

Non High School Graduates. Applicants who have not officially graduated from high school or graduate early may be considered for admission. Results of the General Education Development (G.E.D.) Test or the High School Proficiency Examination for the state in which the student resides is required. Greater emphasis may be given to the SAT, ACT, or CLT in these specific circumstances.

Consortium Visitor Program Application Process. Students enrolled at an institution in the Christian College Consortium may apply for the Consortium Visitor Program. To be considered, contact the Student Records Office at your current institution to obtain the application. Your Registrar needs to approve your proposed coursework for the semester. Once you receive this approval, submit the Consortium Visitor application to the Westmont's Office of Admissions by March 1 (postmarked) for fall admission and November 1 (postmarked) for spring admission along with transcripts of all completed college work. If you haven't completed 24 semester units in college (or 36 quarter units), you must also submit an official high school transcript. If Westmont receives your application after these deadlines, you'll be

considered on a space-available basis. Should you receive an offer of admission after the deadline stated in the acceptance letter, you'll be accepted on a space available-basis.

Reapplicants. Westmont is delighted to welcome back students who previously attended and withdrew for a semester or more. Students who are members of the Armed Forces may be readmitted to the college if they left the college due to the obligations of their military service. All reapplicants must submit an Application for Readmission available online at westmont.edu/apply. Students must submit the application and transcripts from all colleges and universities attended during the absence from Westmont and must have maintained a grade point average of at least 2.0. Students will be considered for readmission only if all educational loans and student accounts are current and the student left Westmont in good academic and student life standing. The Office of Admissions requests clearances from the Business Office, Office of Student Life and the Student Records Office. Reapplicants must also complete an interview with a Student Life Representative. Reapplicants who initially left Westmont for medical reasons must include a statement from a doctor stating that any health issues have been sufficiently resolved to allow a return to school.

Notes: Reapplicants will not be required to submit the $300 confirmation deposit if the deposit remains in their student account. Registration for reapplicants will occur after continuing students have registered.

Applicants from Foreign Countries. Westmont is dedicated to serving and cultivating a global community. International students may apply using Westmont's online applications. The Office of Admissions evaluates applicants on their academic background as shown on transcripts and through the results of the SAT, ACT, or CLT (optional) and the Test of English as a Foreign Language (if the native language is other than English) with a minimum TOEFL score of 83. Westmont also accepts the results of the IELTS with a score of 6.5 or greater. In addition to the application form, the College requires an academic recommendation and a confidential financial statement. Financial documentation must show evidence of available funding to provide for the entire first year which includes tuition, fees, room and board. Applicants are responsible for providing Westmont with certified English translations of all transcripts. In addition, we ask applicants to have the transcripts evaluated by a professional foreign academic credentials service at the applicant's expense.

Non-Matriculates. Non-matriculates are persons qualified for admission to Westmont who do not intend to work toward a degree. To be admitted as a non-matriculate, an applicant must file an application for non-matriculated status in the Student Records Office. Westmont grants admission as a non-matriculate only as its enrollment limitation, conditional use permit, and facilities permit. The College expects students who are granted admission to respect and abide by the behavioral expectations of Westmont's Community Life Statement and maintain at least a 2.0 grade point average in order to continue enrollment. Special students who later wish to apply credits toward a Westmont degree must apply for regular admission. If they are granted admission, they must get approval from the Academic Senate to apply previous credit to the degree program. They should file the petition for approval with the Student Records Office.

Education Program. College graduates holding a bachelor's degree and wishing to earn a standard elementary or secondary teaching credential are

welcome to apply to the Education Program. Limited enrollment is available. Students must have a grade point average of 3.00 and schedule an interview with a member of the faculty in the Education Department. Students should apply at westmont.edu/teaching-credential.

***N*ursing.** College graduates holding a bachelor's degree and wishing to earn a second baccalaureate degree in nursing are invited to apply to the Nursing Program. Limited enrollment is available. Applications should be submitted at nursingcas.org. Consult westmont.edu/nursing for a list of prerequisites and application requirements.

***T*heological Leadership.** College graduates holding a bachelor's degree and wishing to earn a certificate in theological leadership are invited to apply to the Theological Leadership Program. Applications should be submitted at westmont.edu/theo-leadership. Applicants should submit official college transcripts demonstrating a 3.00 GPA or better and a letter of recommendation from a pastoral influence. Students not holding a bachelor's degree may be admitted under special circumstances and should inquire with the Admissions Office.

College Credit Programs

***A*dvanced Placement, International Baccalaureate and A-Level Exams.** Westmont grants academic credit to students who present scores of 4 or 5 on the Advanced Placement Tests of the College Entrance Examination Board, for scores of 5, 6, or 7 on Higher-Level subject examinations of the International Baccalaureate Program and for scores of A*, A and B on the General Certificate of Education A-Level examinations. The College limits credit to a maximum of 32 Advanced Placement/International Baccalaureate/A-Level units. Up to three Westmont-approved Advanced Placement exams may be applied to the general education Common Inquiries curriculum requirements. Students may petition to apply Advanced Placement credit in additional Common Inquiries areas upon completing an advanced course in the subject area at Westmont.

***C*ollege Level Examination Program.** Westmont will give CLEP credit for scores of 500 or above for general tests and 50 or above for subject matter tests, provided students have not completed introductory college courses in those areas. Essays are required when they are offered with the examination. **CLEP credit may be applied to elective credit only**.

***C*ommunity College Courses Concurrent with High School**. Students may transfer college credit earned while in high school to Westmont. They must ask the college they attended to send an official transcript to Westmont so the course work may be evaluated. The maximum transferable units accepted from a community college are 64 semester units.

***D*SST (DANTES Subject Standardized Test).** Westmont will give DSST credit for scores of 400 or above for tests taken since 2008. Tests taken prior to 2008 will receive credit for scores of 50 or above. DSST credit may be applied to elective credit only, provided students haven't completed introductory college courses in those areas.

Accepting A Westmont Offer of Admission

Westmont has limited enrollment availability, and admitted students are therefore advised to submit a deposit of $300 and a Westmont Housing Application as soon as they are certain of their desire to enroll. The $300 confirmation deposit is refundable with a written request up until May 1 at 5pm. **Due to Westmont's limited enrollment on the Montecito campus for undergraduate students, deposits received after the enrollment cap is reached could be placed on a waitlist due to space limitations.** Deposits may be accepted after the initial offer of admittance has been granted with priority being given to those who deposit before May 1. Deposits aren't additional fees and are credited to the student's account.

Note: Reapplicants will be required to submit the $300 confirmation deposit if their previous deposit no longer remains in their student account.

Charges

Community of Support. Westmont is a non-profit corporation and receives gifts and contributions to help keep costs at a minimum. Student charges do not cover the entire cost of education at Westmont. Donations from individuals, churches, and businesses and support from Westmont's endowment make up the balance and allow the College to offer many types of financial aid (See Financial Aid section).

Student Charges. The charges listed below and throughout this section apply to the 2025-2026 academic year. Charges and financial policies are subject to change without notice.

	Semester	Year
Tuition	$27,215	$54,430
Health Fee	310	620
Technology Fee	160	320
Student Activities Fee	177	354
College Housing	5,225	10,450
Standard Meal Plan	3,600	7,200

College Housing and Meal Plan Charges

The room rental contract allows students to occupy their rooms for the entire semester, except during the Christmas vacation period. Students may stay for any portion (or all) of spring recess, but must register in advance with their Resident Director. Students who occupy a triple room and live with two other roommates for the entire semester will receive a refund of $220 at the end of the semester. All students residing in campus residence halls must be on a meal plan. The dining commons is open every day during each semester, except during Christmas vacation, spring recess and on Thanksgiving Day.

Only students who have registered and paid the $300 confirmation deposit can request parking permits.

Off-Campus Programs

Off-campus study programs are listed in the Special Programs section of this catalog. Tuition for Westmont approved off-campus programs is the same as tuition on campus (except in a few cases where tuition is higher than Westmont's tuition, in which case students are charged the higher amount). Other charges for off-campus programs vary by program and are available through the Off-Campus Programs Office or from the hosting institution. Students who participate in these programs through Westmont are considered to be Westmont students. Therefore, they are billed by Westmont and are eligible to receive financial aid through Westmont, including Westmont grants, scholarships and loans and they retain their standing and class priority for returning enrollment and class selection.

Students Using VA Benefits

In accordance with 38 U.S. Code § 3679 students using Chapter 31 (Vocational Rehabilitation and Employment) or Chapter 33 (Post 9-11 G.I. Bill® - G.I. Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at http://www.benefits.va.gov/gibill.) benefits will not be penalized while awaiting the disbursement of VA funds for tuition and fees. Students will not be assessed late fees, denied access to classes or campus facilities, and will not be required to borrow funds to cover the cost of tuition and fees while the college awaits payment from the VA. These protections begin when a student submits a Certificate of Eligibility to the School Certifying Official or when they notify the School Certifying Official of their intent to use Chapter 31 or Chapter 33 benefits.

In addition, students using Chapter 30 (Montgomery G.I. Bill®), Chapter 31 (Vocational Rehabilitation and Employment) or Chapter 33 (Post 9-11 G.I. Bill®) benefits will be charged the same tuition and fees as students who do not use VA benefits regardless of their home state.

Accessory Fees

(This list is for information purposes only and is not intended to be all-inclusive.)

Art Course Fee	25-230
Audit Fee (per unit - assessed on part-time students only)	50
Class Music Instruction (weekly)	
Piano (preparatory level), 13 half-hour lessons	270
Credit by Examination Fee (per unit)	50
Late Course Add, Withdraw,	
Change Grading Option Fee (per course)	40
Minimum Initial Payment Late Fee	150
Payment Plan fee	45
Non-matriculated Student Tuition (per unit)	2,500
Parking/Semester Unrestricted Fee	220
Physical Education Course Fees (per semester)	80-450
Private Music Instruction	
13 45-minute lessons	780
13 one-hour lessons	1,000
High Level Music Lessons	3,000
Science Laboratory Fee (per semester)	125

Confirmation Deposit. The $300 confirmation deposit that is paid at the time students confirm their intent to attend Westmont is retained by the College until the last semester of attendance, when it is credited to their student accounts. The deposit is forfeited if students register for a semester and cancel before the first day of class. In such cases, a new deposit will be required in order to reenroll for a future semester.

***B*illing Procedures.** Notifications are sent to students via email when their bill is ready. Each student will receive these emails at their Westmont email address, and, at other email addresses as authorized by the student. Please use this link to make an electronic payment: https://www.westmont.edu/student-financial-services.

Beginning on June 15th, fall semester billing information and financial aid will be posted to the above website. Spring charges and financial aid will be posted by December 1st. The information will be updated daily, and will reflect the status of each student's enrollment and financial aid documents at the time of inquiry. Financial aid and student charges may change subject to additional documents or actions by the student.

Financial Dates and Deadlines

Fall Semester/ Spring Semester	May 1	June 15	July 1	Aug 1	Aug 15/ Dec 15	Sept 15/ Jan 15	Oct 15/ Feb 15	Oct 31/ Mar 31
All financial aid documents are received by the Office of Student Financial Services	X							
Monthly E-mail bill reminders		X	X	X				
Minimum initial payment is received by the Office of Student Financial Services					X			
2nd Payment plan installment						X		
3rd Payment plan installment							X	
Account balance is paid in full to qualify to register for the next semester								X

***F*inancial Aid Documents.** It is strongly recommended that all financial aid forms and documents be submitted to the Office of Student Financial Services by June 1. Pending financial aid will not be accepted as a payment to meet payment deadlines. Westmont cannot accept loan proceeds as payments until students have endorsed the promissory notes or checks.

***P*ayment Schedule.** Students are required to pay at least one-third of the amount they owe for a semester (i.e., semester charges less financial aid) no later than August 15 for the fall semester and December 15 for the spring semester. Students must either pay for the semester in full or they may participate in the Payment Plan with a $45 fee. It consists of three monthly installments due August 15, September 15, and October 15 for the fall semester and December 15, January 15, and February 15 for the spring semester. All charges must be paid in full by October 31 for the fall semester and by February 28 for the spring semester in order for students to register for the next semester. If your account is not paid in full by August 15 and December 15, a finance charge of ten percent per annum will be assessed at the end of each month. In addition to the payment plan fee of $45 each semester, finance charges will apply even if you make the required payment plan payments on schedule.

All unpaid student account balances will constitute a student loan for which students are responsible. Students may not obtain diplomas or participate in commencement exercises as long as they owe money or loan payments to Westmont.

***I*nternational Student Payment.** International students who have been admitted to Westmont must submit a deposit of $300 and a Housing Application to confirm their admission. **Due to Westmont's limited enrollment, deposits arriving in late spring or summer may be held on a waitlist due to space limitations.** Deposits are not additional fees but are credited to the student's account after their last semester of enrollment. Confirmation deposits held on waitlist students will be refunded if no space becomes available.

***M*inimum Initial Payment Late Fee and Cancellation of Registration.** A late payment fee of $150 will be assessed if the Minimum Initial Payment is received by the Office of Student Financial Services after August 15, 2025, for the fall semester or December 15, 2025 for the spring semester. Westmont may cancel the registration of a student who does not make the Minimum Initial Payment on schedule. These students will be dropped from their classes so that students on waiting lists may fill their places. Only registered students will be allowed to occupy College housing.

***S*tudents who enroll late.** After making their Minimum Initial Payment students who wish to initially register or re-register at or near the beginning of the semester, may register through the 5th day of the semester. After this time, they may register or add classes by petition only, and, if the College grants their petitions, they must pay a late registration fee or a late course add fee. However, if Westmont reaches its County-imposed limit on enrollment, registration will close at that time, and the College will not be able to enroll any more students.

***P*ayment Policy.** By enrolling at Westmont College, students enter into a formal agreement with the college, and agree that they have an ongoing Student Account for all educational costs and related charges. Student will be responsible for all costs incurred on Student's Account at Westmont for the entire term while Student is enrolled at Westmont. The Student Account will be paid from time to time by Student or grants, scholarships, or loans from sources administered by Westmont or others. The Student Account charges for which Student is responsible include (but are not limited to) tuition, room, board, lab charges, parking fees, library fees, fines, damage assessments and all other charges.

Student Account charges are and will constitute a debt and obligation from Student unto Westmont. Student agrees to pay all amounts that accrue on Student's Account with Westmont during all periods of Student's enrollment at Westmont. Said amounts as they exist from time to time shall be regarded as an open book account. As charges for tuition, room and board and other items relating to student's enrollment at Westmont are posted to the Student's Account from time to time, they will each accrue interest commencing on the first day of classes for all students for the then applicable semester or term, on the unpaid amount at the rate of ten percent per annum until the same have been paid.

Student may assign a password to parents or authorized users permitting each of them to access Student's Account statement on the Westmont website. Student hereby waives as to Student's parents and authorized users, any privacy rights regarding said Student account as may exist under the Federal Education Rights and Privacy Act (FERPA) and the related rules and regulations (20 USC 1232g & 34 CFR Pt. 99) and Student hereby consents to the full release by Westmont at any time of Student's Account information to Student's parent(s) and/or authorized user. Student agree that the obligation and debt is a "Student Loan" as the same is defined in the United States Bankruptcy Code as amended from time to time. Student agree that this note shall not be dischargeable in a bankruptcy proceeding of Student except as is otherwise provided in the United States Bankruptcy Code as amended from time to time. No waiver by Westmont of any default by Student shall constitute a waiver of any future or other default. All payments due on Student's Account shall be in United States Dollars and in the event that legal action is instituted, Westmont shall be entitled to the reasonable costs of collection and attorney fees

Appeals. Students may ask to have their Student Account issues reviewed by a supervisor in the Office of Student Financial Services. In the event students feel their individual circumstances warrant an exception to the published policy and merit further consideration, they may appeal in writing to the Vice President for Finance.

Withdrawing from School/Charges and Refunds. Westmont makes refunds under certain conditions. Students never receive refunds of their deposits. Refunds for tuition, fees, board, and housing depend on the time the student officially exits. Students must contact the Student Records Office for an exit conversation before exiting in order to receive a refund of any student charges. The exit date is set as the day the student notifies the Student Records Office that they are leaving school.

A variation of the refund policy may apply for students who are federal financial aid recipients.

Tuition

Time of Exit		**Refund**
Prior to first day of the semester:		100%
End of week:	1	75%
	2	70%
	3	65%
	4	60%
	5	50%
	6	40%
After the sixth week:		0%

Fees

Music lesson fees are not refundable after the first lesson or after the Friday of the second week of classes. All other fees per the schedule listed below.

Time of Exit	Refund
Prior to first day of the semester	100%
After first day of the semester	0%

Room

After college housing has been reserved, room cancellation will result in a $150 fee even if the student has not yet occupied the campus housing.

An additional $100 late fee is charged for cancellations after August 1 (for fall semester) or December 15 (for spring semester).

Furthermore, once a student occupies a campus room and then cancels it after the start of the semester, only a percentage of the entire semester room charge will be refunded less the applicable preceding cancellation fees according to the schedule below. To cancel, complete an official check out with your Resident Director.

Time of Exit		Refund
End of Week	1	75%
	2	70%
	3	65%
	4	60%
	5	50%
	6	40%
	After the sixth week	0%

Meal Plan

When a student withdraws or checks-out from a campus residence prior to the start of the meal plan—and does not use any portion of that meal plan—a 100% refund of the semester board charge is made. Otherwise, a refund is based upon the week of the withdrawal or check-out (whichever is later), detailed in the schedule above.

Auditing Courses - Current Students

During the first week of classes (not before), students may pick up an Add/Drop form from the Student Records Office in Kerrwood Hall. Obtain the signature of the instructor on the Add/Drop form and return it to the Student Records Office by the Add/Drop deadline specified in the academic calendar.

Members of the Public Auditing Westmont Courses

There is currently no limit and no age or residence restriction for members of the public who wish to audit a Westmont course. During the first week of classes (not before), pick up a Non-Matriculate Application form and an Add/Drop form from the Student Records Office in Kerrwood Hall. Obtain the signature of the instructor on the Add/Drop form and return both forms to the Student Records Office by the Add/Drop deadline specified in the academic calendar. The current rate is $50.00 per unit, and any required material fees.

Members of the Public Registering for Fall or Spring Semester Courses for Credit

Per the Westmont Conditional Use Permit up to five (5) part-time students who are over 25 years old and are residents of Santa Barbara County may take courses for credit in fall or spring semester. They will be billed non-matriculated student tuition at the current rate of $2,500 per unit.

Student Financial Services

***F*inancial Aid**. Approximately ninety-five percent of Westmont students receive some form of financial aid. All students admitted to Westmont are eligible to apply for financial assistance. Students receive financial aid funds in the form of scholarships, grants, loans, and student employment.

Some forms of financial aid require a demonstration of need, although some students receive scholarships solely on the basis of academics or talent. To determine financial need and estimate a fair family contribution, Westmont uses the nationally accepted standards and procedures of the federal government. Factors involved in evaluating family contributions include income and assets of students and parents as well as the size of the family. The Free Application for Federal Student Aid (FAFSA) provides the necessary information and serves as the foundation of the financial aid application process. "Need" is defined as the difference between your expected family contribution (as determined by the federal formula) and the allowable educational expenses of attending Westmont (the "cost of attendance"). Students and families are advised not to rule out the possibility of financial aid because of either a concern regarding the total cost of attendance or a high income. Reapplication for financial aid is required for each year that a student attends Westmont. The priority application deadline is March 1 of each year. Financial aid information is subject to change. Go to www.westmont.edu/student-financial-services for more information.

***S*cholarships**. Scholarships are based on academic performance, talent, and/or financial need. They do not require repayment. For information on Westmont's Academic Scholarships, please refer to the section: Applying to Westmont.

Athletic Scholarships–These are available to men and women. Student athletes should contact the Athletic Department.

Creative and Performing Arts Scholarships–Westmont gives awards each year in art, music, and theatre arts. Students should contact the particular academic department directly for more information.

The David K. Winter Character through Servant Leadership Awards–Details are available through the Westmont Student Life Office.

Grants. Students receive grants on the basis of financial need and do not need to repay them.

Westmont College Grants–These grants assist students in meeting college costs and are offered depending on financial need and satisfactory academic performance.

Cal Grant A–This state grant for California residents is based on financial need and academic performance, and new awards for the 2025-2026 academic year are scheduled to be $9,358. Students may renew this grant if they demonstrate satisfactory academic progress, continue to demonstrate financial need, and meet income and asset guidelines as determined by the State of California.

Cal Grant B–This state grant for California residents ranges from $1,648 to $10,868. The award is intended to assist economically disadvantaged students.

Federal Pell Grants–These federal grants are available to eligible students who demonstrate the greatest financial need. They range from $740 to $7,395 for the 2025-2026 academic year.

Federal Supplemental Educational Opportunity Grant–This federal grant ranges from $500 to $1,500 per year. Pell Grant recipients are given priority for these awards.

Federal TEACH Grant Program – This non-need based program provides up to $4,000 per year (up to an aggregate amount of $16,000) to students enrolled in an eligible program. Recipients agree to teach as a highly-qualified teacher in a high-need field. Failure to complete the required teaching service results in conversion of the TEACH Grant to a Federal Direct Unsubsidized Loan with interest accruing from the date the grant was awarded. This federal grant is made available to students who have achieved junior class standing or beyond.

Loans. Loans are low-interest and no-interest awards that must be repaid.

Westmont College Interest-Free Loans–These loans are available to students who are graduates of California high schools, U.S. citizens, and have established financial need. Students repay them in equal monthly installments over 10 years, beginning six months after they leave Westmont or their scheduled graduation, whichever is earlier. The minimum monthly payment is $50. Repayment of Westmont Interest-free Loans cannot be deferred after a student ceases to be enrolled at Westmont.

Federal Subsidized Direct Loan–Recipients must show financial need. Repayment begins six months after graduating, leaving school, or dropping below half-time enrollment. The interest rate is fixed. The Subsidized Direct Loan interest rate for 2024-2025 was fixed at 6.53%. The loan proceeds are reduced by fees of just over 1%, withheld by the US Department of Education. Students who have questions concerning their loans should contact the Westmont College Student Financial Services office. The minimum monthly payment is $50.

Federal Unsubsidized Direct Loan–This non-need-based loan program has terms and conditions similar to Federal Subsidized Direct Loans, except that the borrower is responsible for interest that accrues while he/she is in school. The unsubsidized Direct Loan interest rate was fixed at 6.53% for the 2024-2025 academic year. The combination of Subsidized and Unsubsidized Federal Direct Loans for a borrower may not exceed the annual and aggregate limits for loans under the Federal Direct Loan program. The

loan proceeds are reduced by fees of just over 1%, withheld by the US Department of Education.

Federal Parent Loans for Undergraduate Students (PLUS)–This loan program allows creditworthy parents to take out loans to help pay for the educational costs of their dependent students. The interest rate for the 2024-2025 year was fixed at 9.08%. Repayment is scheduled to begin 30 days after the second disbursement of each loan, though parents may choose to postpone repayment while their student is enrolled (interest continues to accrue). Borrowers are required to pay origination fees of approximately 4.25%, which will be deducted proportionately from each disbursement of the loan by the US Department of Education.

Work. ***Federal Work-Study*** is a federally funded work program. Students will work approximately 5-6 hours per week during the academic year to earn the typical Work-Study award. Eligibility for Federal Work-Study is based on financial need as determined by the FAFSA. Funds earned are paid directly to students; these funds to not apply directly to the student account. There are also other campus jobs paid with Westmont funds, rather than federal funds, the availability of which are not based on need.

Off-Campus Programs. Off-campus programs are listed in the Special Programs section of this catalog. For financial aid purposes, tuition for off-campus programs approved by Westmont is the same as tuition charged for Westmont's on-campus students. For those programs whose tuition is higher than at Westmont, the higher amount will be charged. Other charges for off-campus programs vary by program and are available through the Global Education office. Students who participate in these programs are considered to be Westmont students. Therefore, they are eligible to receive aid through Westmont. Students who have Westmont College grants, merit scholarships, awards and loans may use them for ONE PROGRAM ONLY at a Westmont-approved off-campus program, (i.e. approved by Westmont, but not taught by Westmont faculty). All financial aid including Westmont institutional grants, merit scholarships, etc., will be available for any Westmont taught programs (e.g.: Europe, England, Mexico and San Francisco).

Students who choose to access off-campus programs directly and do not go through Westmont will not be eligible for financial aid through Westmont. They will need to apply for re-admission to Westmont upon their return. Any coursework will be considered transfer coursework and will need to be pre-approved prior to enrolling in the courses.

How to Apply for Aid

Complete and submit a FAFSA form by March 1 to receive priority consideration. The Westmont College code number is 001341. The FAFSA is available on the FAFSA website (www.studentaid.gov). The student and one parent will each need a Federal Student Aid ID (FSA ID) and password to sign electronically. Apply for the FSA ID at https://studentaid.gov.

California residents who have *not* previously been awarded a Cal Grant A or B must carefully review the instructions before completing the FAFSA and completely answer the state residency questions. New Cal Grant applicants must submit their high school GPA to the California Student Aid Commission. The deadline for submitting both this

and the FAFSA is March 2. Information about this application process is available at your high school, college, or at Westmont College.

Rights and Responsibilities. Westmont will not make an offer of financial aid until the college has made a decision about admission. If students receive aid, they are expected to enroll full-time, complete a minimum of 75% of the units attempted (66.7% for students with freshman standing), and maintain a grade-point average at Westmont of 2.0 ("C") or better.

A student is eligible for a maximum of eight semesters of Westmont aid or until degree requirements are completed, whichever comes first. Transfer students receive aid on a prorated basis, based on the number of units transferred at the time of admission to Westmont. Some forms of aid are not available to students pursuing a second B.A. and/or B.S. degree.

Westmont graduates entering the 5th year education program in the fall semester may be eligible for the same Westmont institutional aid package that they were eligible for prior to graduating. This aid would be for fall only and applies to both merit-based and need-based (according to the FAFSA) aid. Students may lose some eligibility for Federal and State aid.

Students entering the 5th year education program with a bachelor's degree from another institution will be considered for aid in the same way as a transfer student.

The College applies aid to students' accounts once each semester. Students who drop below full-time enrollment (12 units) or withdraw from school may be required to repay a prorated amount of the semester's aid. Any decision of the Financial Aid Office, including the amount of aid or denial of aid, may be appealed.

Renewal of Aid. Westmont offers need-based financial aid for one year at a time. Renewal is subject to continued financial need and satisfactory academic progress (see "*Rights and Responsibilities*" above). Eligibility for need-based aid may change from year to year based on changes in a family's financial situation, as determined by the results of the FAFSA. Students who desire aid (other than academic or talent-based scholarships) must complete the FAFSA annually.

Federal and state regulations require that eligibility for financial aid (e.g., Pell Grants, Federal Student Loans, Work-Study, Cal Grant, etc.) be determined based only on courses that are required to complete one's degree program. Students are strongly encouraged to check with the Financial Aid Office to determine the effect of enrollment in courses beyond those required for one's degree. To be considered full-time for financial aid purposes, a student must be enrolled in at least 12 units of coursework that are required for completion of the academic program.

A veteran or eligible V.A. benefit recipient who remains on probation for grade point deficiency below a 2.0 cumulative GPA beyond two semesters, will have his/her veteran's benefits discontinued and any further certification of benefits terminated. Contact the Veteran's Administration for more information about Veteran's Education Benefits.

Refund Policy. Students who withdraw from Westmont must notify the Student Records Office to start the process. Those with Federal Student Aid funds will be notified if any of those funds need to be returned.

The Institutional Refund policy is different than the Federal Title IV Refund policy. See the "Charges" section in this catalog for information on the institutional refund.

The refund policy for Cal Grants is the same as the Westmont Institutional Refund policy.

***S*cholarships.** Scholarship funds have been made available through generous contributions from alumni, parents, and friends of the college. These scholarships represent a portion of the total financial aid budget each year. Many of these scholarships help fund Westmont College Academic Merit Scholarships, Westmont College grants, and talent awards. The Financial Aid Office can provide information about scholarship applications, though most scholarships do not require one.

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B.A., George Fox University
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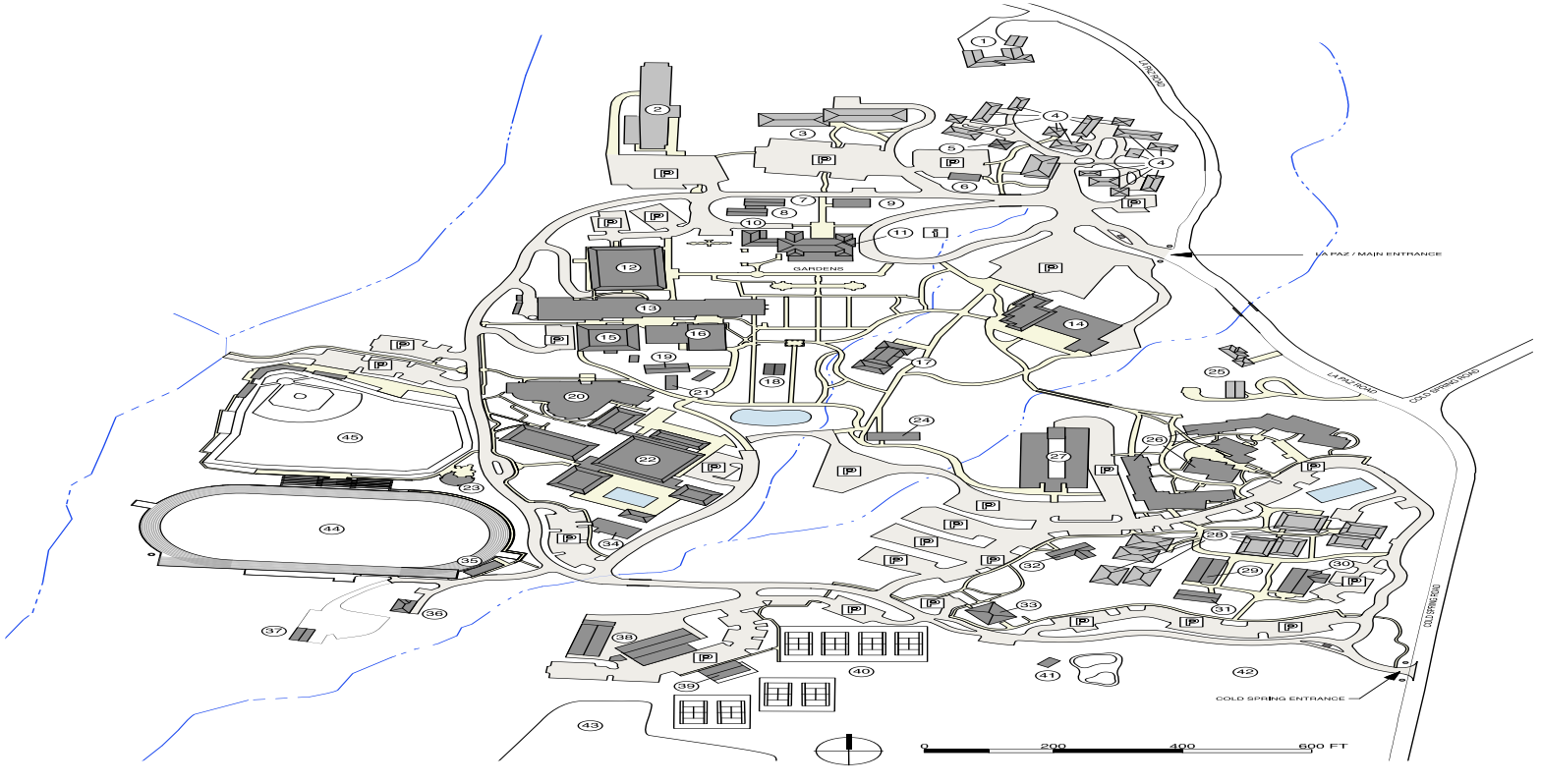
CAMPUS MAP



1	President's Residence	16	Ellen Porter Hall of Fine Arts	31	Deane Chapel
2	John Page Hall	17	William Porter Center	32	Health and Counseling Center
3	Emerson Hall	18	Voskuyl Chapel	33	Reynolds Hall
4	Deborah Clark Halls	19	Hubbard Hall	34	Central Plant
5	Center for Student Success	20	Winter Hall for Science and Mathematics	35	Track Storage
6	Clark T. Classroom	21	Biology Annex	36	Athletics Administration
7	Administrative Offices	22	Hugh R. Murchison Physical Education Complex	37	Barn
8	Administrative Offices	23	Observatory	38	Central Receiving and Physical Plant
9	Post Office	24	Carroll Hall	39	Fletcher Jones Foundation Center for Engineering
10	College Store	25	Martin Institute	40	Abbott Tennis Courts
11	Kerrwood Hall	26	Global Leadership Center	41	Golf Center
12	Roger John Voskuyl Library	27	Van Kampen Hall	42	Deane Field
13	Adams Center for the Visual Arts / Ridley-Tree Museum	28	Armington Hall	43	Lovik Field
14	Ruth Kerr Memorial Student Center / Dining Commons	29	Deane Hall	44	Track and Thorrington Field
15	Mericos H. Whittier Hall	30	Music	45	Russell Carr Baseball Field