

<i>Courses required in the major</i>	<i>Maximum overlap permitted</i>	<i>Minimum # of distinct courses required</i>
8	0	14
9	1	14
10	2	14
11 or more	2	15 or more

Overlap between two majors. A double major, i.e., two college recognized major concentrations, shall consist of a minimum of sixteen distinct courses of three semester hours or more. When some courses may apply toward both concentrations, no more than three courses shall be counted as satisfying the requirements of both major concentrations. This policy has the following implications:

<i>Total courses in two majors</i>	<i>Maximum overlap permitted</i>	<i>Minimum # of distinct courses required</i>
16	0	16
17	1	16
18	2	16
19	3	16
20 or more	3	17 or more

Overlap between minors. There may be no overlaps between minors.

Special Academic Programs

The Academic Writing Program

Minimum Grade in English 101. As the first step in developing competence in writing, a minimum grade of “C” is required of all students receiving credit for English 101.

Departmental Writing Programs. All students will meet Writing Program requirements through a departmental writing program.

Group Majors. Departments that established departmental writings programs will include provisions for their group majors. When students initiate a group major other than those formally approved by the faculty, they must include plans for meeting the Writing Program requirements. Students should obtain approval for such plans from their major advisors and the director of the Writing Program.

Transfer Students. Students who transfer into a major program should work with their major advisor to determine what they must do to satisfy Writing Program requirements.

The Access Program

The Access Program provides an alternative entry into Calvin College for those students who do not meet admission standards, but whose records indicate that they could develop into successful college students. Admission into this program is determined by the Committee on Admissions and is based on high school grades, high school course work, ACT/SAT scores, and recommendations. Enrollment by means of this program is limited each year to a limited number of first-year students.

After a student has been selected to be part of the Access Program, placement tests in English and mathematics are given to determine whether additional course work is neces-

sary in either or both areas. All Access students are required to take ASC 112: Strategies for Academic Success. This course is a 3 semester hour course and is taken concurrently with a reading-lecture course in which the student learns to apply what is taught in ASC 112.

Students in the Access Program are assigned to academic advisors who are familiar with program requirements and methods by which academic progress can be achieved. Typically Access students are very involved in the program during their first semester, and additional follow-up might occur during the second semester. Please see more information under *Office of Student Academic Services* and *Academic Services* or visit our website at: www.calvin.edu/academic/sas.

The Adult and Continuing Education Program

Adults who wish to begin a college program or return to college courses may enroll under the classification of Adult Learner. This classification includes:

1. Adults with no prior college experience and at least a four year interruption in education since high school.
2. Adults transferring into Calvin College who have a combination of course work and work experiences equivalent to four years of activity since high school.
3. Post baccalaureate students returning for a second degree or a set of course work related to their emerging interests and commitments.

Adult learners seeking to complete a degree from Calvin College must fulfill requirements for a major and for liberal arts core courses. At least 25% of the semester hours required for graduation and a minimum of three courses in the designated major must be completed at Calvin College.

Adult Learners who enter or return to Calvin must complete the new Adult Learner Core Curriculum. Adult Learners will be required to complete one course in each of the following core areas: Developing the Christian Mind or Biblical/Theological Studies II, Global/Historical Studies or Foreign Language Competency, Written Rhetoric, Rhetoric in Culture, History of the West & the World, Philosophical Foundations, Biblical/Theological Foundations I, Persons in Community, Societal Structures in North America, Literature, The Arts, Mathematics, Natural World (Physical or Biological Science), a Capstone Course, and an approved Cross-cultural engagement.

NOTE: Certain programs and majors do not allow this modified liberal arts core. For example, Adult Learners in the teacher education program and the nursing program must fulfill the liberal arts requirements specific to those programs. Adult Learners should seek the advice of an academic advisor from their program or major early in their enrollment at Calvin.

Adult Learners may also obtain credit through the development of a prior learning portfolio. The portfolio provides a means for adult learners to petition for college credit based on prior learning through work or volunteer activities. Students must write essays and supply documentation when petitioning for prior learning credit. Normally, one to four semester hours may be granted for each essay and appropriate documentation. A total of 16 semester hours may be obtained through the prior learning portfolio.

Students seeking classification as an Adult Learner should indicate this when they complete their admission forms. Questions about the Adult Learner classification may be directed to the Office of the Registrar.

The Honors Program

Calvin College offers special opportunities for students of outstanding academic ability throughout their undergraduate education. The Honors Program is intended to provide for the discovery, nurturing, and rewarding of academic excellence, and to prepare outstanding students for leadership in service to the immediate community and the world at large.

Incoming students are automatically invited to participate in the Honors Program if they

have an ACT composite score of 29 or higher (= SAT 1290). Current students whose cumulative GPA at Calvin is 3.3 or higher are also eligible to participate. Other students may apply to the director by completing the online “Application to Participate in the Honors Program” (www.calvin.edu/academic/honors/forms/apply.htm).

Students in the Honors Program may register for special honors sections of core courses, contract with a professor to take a regular course for honors credit (for which extra work is required), seek exemptions from core requirements by examination, propose cross-disciplinary programs of concentration, and participate in various extracurricular events for honors students. Honors classes generally assume a high level of motivation and initiative on the part of the student, and aim at greater depth of learning than a regular class.

To graduate with honors, students must complete at least six honors courses (a minimum of eighteen semester hours with at least two of these courses outside their major), maintain a GPA of at least 3.5, and fulfill any other conditions established by the department in which they major. These departmental requirements are spelled out on the website (www.calvin.edu/academic/honors/courses/requirement.htm). Regular interim courses with honors grades are not considered honors courses. Students should plan their honors work with their advisors as early as possible. They must also submit an “Application to Graduate with Honors” by February 15 of their senior year.

For further information, contact the Director of the Honors Program, Prof. Kenneth Bratt (Classics Department), or see the website at www.calvin.edu/academic/honors/.

Professional-degree programs

Information regarding professional-degree programs can be found in the department under which they fall in the Academic Departments/Courses section of the catalog.

Pre-professional Programs

The programs in this section prepare students for admission to professional and graduate schools while also meeting the requirements for a Bachelor of Arts or Bachelor of Science degree from Calvin.

Architecture

Various courses of study may be pursued as preparation for a professional degree in architecture, because of the broad nature of a profession concerned with design, history and culture, and the social and technical sciences. Most Calvin pre-architecture students follow the “Harvard model” for architectural education—they complete a four-year liberal arts degree in a field such as art, art history, business, communications, engineering, geography, history, philosophy, environmental science, sociology, or political science, or an interdisciplinary group major, and then they enroll in a graduate program for the master of architecture as a first professional degree. This liberal arts focus helps prepare students to work in diverse environments and makes them more resilient and adaptable in coping with the rapid pace of global social, technological, and economic change. Four years of high school math is recommended, since at least one course in Calculus and Physics 221 and 222 are required.

Students may also take two years of courses at Calvin and then transfer to a professional program offering a degree in architecture. A model two-year program includes ENGR 103 and ART 153 in the first year and ARCT 201-202 and ARTS 250 in the sophomore year.

Students interested in these programs should consult with the pre-architecture adviser in the Department of Art and Art History.

Law

There is no prescribed program specifically designed for the student planning to enter a law school after graduation. Law school applicants must have a college degree and must take the Law School Admission Test, but law schools do not require that applicants have taken

specific courses or have a particular major concentration. Prospective law school applicants should complete the requirements for a Bachelor of Arts degree as they are prescribed in the Core Curriculum. The pre-law advisor, J. Tatum, of the Department of Sociology, can advise students on suitable electives and can help them plan programs, which provide good preparation for law school. Pre-law students should declare their interest in law at registration time, and they should also plan to attend the pre-law information session held at the beginning of the fall semester. The pre-law advisor also guides students through the processes of identifying law as a calling, LSAT test preparation and application to law school.

Medicine and Dentistry

Students planning to apply to medical or dental schools should consult P. Tigchelaar, Department of Biology, faculty advisor for the pre-medical and pre-dental programs. Students should also note the general college core requirements listed under the Core Curriculum.

A student may select any major concentration and still meet the entrance requirements for all medical and dental schools. However, nationwide the majority of the applicants to medical and dental schools are science majors.

For those students not majoring in biology, the minimum science requirements for entrance into nearly all medical or dental schools are met by the following: Three courses in biology (which should be selected in consultation with the pre-medical advisor); Chemistry 103-104, 261-262 (Chemistry 323 is required by some schools); and Physics 221-222 or the equivalent. Mathematics 132 and 143 are recommended. A two semester calculus sequence (Mathematics 161-162) is required by very few schools.

Because a few schools have unique requirements, students should consult with P. Tigchelaar to determine specific requirements of the schools to which they intend to apply.

Pre-medical and pre-dental students normally take their Medical College Admissions Test (MCAT) or Dental Admissions Test (DAT) in the spring of their junior year and should apply for admission to medical or dental schools during the summer prior to their senior year.

Ministry

The Association of Theological Schools (A.T.S.) recommends that pre-seminary students develop the ability to think, communicate, and do independent research. As well, pre-seminary students should learn about human culture and society, and they may develop proficiency in Biblical languages, Latin, and modern languages. Pre-seminary students should consult the catalogs of the seminaries that they intend to enter for specific admission requirements. Pre-ministry students should direct any questions to a member of the pre-ministry advising team: M. Lundberg (Religion), team coordinator; D. Cooper, Jubilee Fellows Leader; J. Witvliet, Director of the Music and Worship Program.

To qualify for admission to Calvin Theological Seminary, students must meet all of Calvin's requirements for a bachelor's degree, as well as the admissions requirements of the seminary, including a minimum grade point average of 2.67. Calvin Theological Seminary recommends that pre-seminary students emphasize the following areas of study: Classical civilization, English, Greek, history, philosophy, psychology, sociology, and theology.

Calvin Seminary's Master of Divinity (M. Div.) program prepares persons for ordination. To enter the Master of Divinity program, pre-seminary students must complete the following courses:

- Language: At least two years of Greek
- Humanities: A total of at least 24 semester hours (8 courses) in English, history, and philosophy, with at least two semester-length courses each in literature, history, and philosophy (preferably history of philosophy)
- Natural science, social science, and speech: At least two courses in each

Calvin College students should include the following courses in their programs: Greek 205-206; Philosophy 251 and 252; and Communication Arts and Sciences 101 and 200. Communication Arts and Sciences 203 and 240 are recommended.

Calvin Seminary's Master of Arts in Educational Ministry program prepares persons for positions of educational leadership. The courses required for admission are generally met by the college graduation requirements with the addition of one three semester hour course in philosophy.

Calvin Seminary's Master of Arts in Missions program prepares persons for leadership in professional settings such as missions and para-church organizations. Admission requirements are generally met by Calvin College graduation requirements with the addition of one three semester hour course in philosophy and one three semester hour course in Social or Cultural Anthropology.

Calvin Seminary's Master of Arts in Worship program prepares people to lead the church in the core activity of worship. Admission requirements are generally met by Calvin College graduation requirements with an additional six semester hours in Music and/or Art, which may include performance or studio classes; a minimum of three semester hours in philosophy; and a minimum of three semester hours in oral rhetoric.

Calvin Seminary's Master of Theological Studies program provides a theological education that emphasizes vocational objectives for students who are not seeking ordination. Specific requirements beyond those required for graduation from the college include four courses in Greek; competence in a modern foreign language through the second-year college level is recommended.

Professional Combined-Curriculum Programs

Occupational Therapy

Preparation for entrance into the field of Occupational Therapy (OT) requires earning a Master of Science degree (M.S.O.T.) or a doctor's degree (O.T.D.) in Occupational Therapy, completing a six-month internship, and passing a national board examination. Admission into these graduate programs requires a college degree with any major so long as certain specified courses are taken. It also requires work or volunteer experience in O.T., which can be arranged through the Service-Learning Center at Calvin.

Because the specific courses required for admission to occupational therapy are designated by the school offering the degree, the student should obtain a list of these required courses from each school to which they intend to apply. This step can be completed after arriving at Calvin and learning which schools offer O.T. programs. Before registering for classes, a schedule for each student is arranged in consultation with the pre-occupational therapy advisor, R. Nyhof, of the Biology Department.

Calvin College offers a 3-2 combined curriculum program with the Program in Occupational Therapy, Washington University School of Medicine in St. Louis, Missouri. A student participating in this program would spend three years at Calvin College taking the specific courses listed below, apply for acceptance into the program at Washington University, and if accepted, transfer to Washington University for the two clinical years. Upon successful completion of the first year, the student would receive a Bachelor of Science in Letters and Occupational Therapy from Calvin College and a M.S.O.T. from Washington University upon successful completion of the second year program. Alternatively, a student accepted into the O.T.D. program would spend three years at Washington University. A student applying from Calvin will receive preferential status in his/her application for either program.

The three-year program at Calvin includes the following requirements:

Biology 141, 205, and 206
CAS 215 or PE 215
Chemistry 115
Communication Arts and Sciences 101
History 151 or 152
Philosophy 153 and Philosophy 212 or Biology 396.

- Religion 121 or 131
- A Second course in Religion
- Interdisciplinary 110, 149 and Interdisciplinary 150
- English 101 and one course in literature
- Foreign language, through the second year college competency
- Mathematics 143 or Psychology 255
- Music 103, 106, 236, or 238
- Physical Education: 3 activity courses
- Physics 223
- Psychology 151, 201, and 212
- Sociology 151 and 153
- Medical terminology course (to be arranged)

Pre-professional transfer programs

Natural Resource Programs

Students interested in stewardship of God's creation can complete degrees in Resource Ecology, Policy and Management, and Resource Institutions and Human Behavior.

Resource ecology requires students to become proficient in biology, physical sciences, mathematics, and computer science. Students considering careers in researching fisheries, wildlife, and forestry should complete a biology concentration at Calvin, while also fulfilling graduate school requirements. Students should consider graduate education in Natural Resources to increase their employment options.

Resource policy and management requires students to become proficient in economic theory, management skills, social sciences, communication skills, and political institutions. This emphasis is appropriate for students who seek careers in management of resources (forestry, fisheries, and wildlife management), planning (landscape architecture), or policy (resource economics, policy, advocacy, education, and communication). Landscape architecture requires completion of courses in design, graphics, engineering, and planning.

Resource institutions and human behavior requires students to become proficient in social and behavioral sciences, learning how individual, group, and institutional behavior affects the use and allocation of natural resources.

Students follow one of two paths to gain professional competence in the Natural Resources, in any of the above fields: 1) Completion of a Bachelor's degree at Calvin followed by graduate study or 2) After two years of study at Calvin and then transfer to a professional program elsewhere. Transferring after two years is suggested for students interested in resource policy and resource management. Students who expect to transfer should complete the first two years of the Biology major, one year of mathematics, one year of chemistry, and as many courses in computer science and economics as possible.

Students interested in these areas should consult D. Warners, of the Biology Department, early in their college careers.

Optometry

Students wishing to become optometrists may complete three to four years at Calvin before entering optometry school to complete four additional years of study culminating in the Doctor of Optometry (O.D.) degree. Most optometry schools now prefer that transfer students complete a B.A. or B.S. degree before entering optometry school. Requirements of the various schools vary, but all require the following:

	<i>Semester hours</i>
Biology 141 and 242	8
Biology 207 or 336	4
Chemistry 103 and 104	8
Chemistry 261 and 262 or 253	5-10

Physics 221 and 222	8
Mathematics 132 or 161	4
Mathematics 143	4
English 101 and a literature course	6
Social Science (Psychology 151, Sociology 151)	3-6

Many schools also recommend physiology, anatomy, biochemistry, and a business or economics course. These requirements may be met within the context of a biology major or group science major at Calvin College. Students should consult the website of the Association of Schools and Colleges of Optometry (www.opted.org) and work with the pre-optometry advisor, J. Ubels, to plan a course of study that meets the requirements of the optometry schools to which they intend to apply. All applicants to optometry school are required to take the Optometry Admission Test (OAT), which is offered each year in October and February. Application deadlines at the various optometry schools range from January 1 to April 1.

Pharmacy

Calvin College does not offer courses in pharmacy; however, students may take courses at Calvin that are prerequisites for acceptance to a pharmacy school. Students interested in a career in pharmacy will complete two to three years at Calvin College before transferring to a college of pharmacy to complete four additional years of study culminating in a Doctor of Pharmacy (Pharm.D.) degree. Pre-pharmacy requirements of the various pharmacy schools vary greatly and change often. Some schools do not accept advanced placement credits. Students should carefully and frequently consult the American Association of Colleges of Pharmacy website (www.aacp.org) and the websites for the pharmacy schools to which they intend to apply to plan an appropriate course of study. The pre-pharmacy advisor, J. Ubels, will assist students in planning a pre-pharmacy curriculum. Most pharmacy schools require the Pharmacy College Admission Test (PCAT), which should be taken in the fall semester of the student's final year at Calvin.

Physical Therapy

Students wishing to enter the field of Physical Therapy (PT) must complete a master's degree (M.S.P.T.) or a doctor's degree (D.P.T.) in Physical Therapy. Beginning in the year 2020, a D.P.T. will be required for entrance into the profession. Students at Calvin College can prepare to complete this degree in two ways. First, students may complete two years of prerequisite courses at Calvin (prerequisite courses are described later) and then transfer to the general undergraduate program at an Institution offering a graduate degree. Following a third year, they could apply to a professional school at that institution to earn the M.S.P.T. or D.P.T. degree. Second, students may complete the prerequisite courses in conjunction with a degree program in any discipline. Students then attend graduate school. Because admission to graduate programs in Physical Therapy is very competitive, students are frequently advised to choose the second option; this option will lead to a degree in addition to completing the prerequisite courses. Calvin has developed an articulation agreement with the Herbert H. and Grace A. Dow College of Health Professions Physical Therapy Program at Central Michigan University (CMU). Under this agreement, CMU will guarantee acceptance for up to two Calvin students per year who have met their requirements.

The prerequisite courses depend on the graduate school to which students wish to apply; therefore, students should obtain a list of requirements for each of the schools to which they plan to apply. Below is a sample list of prerequisite classes for non-Biology majors. Students are encouraged to contact the advisor of the pre-physical therapy program, R. Nyhof, of the Biology Department, before they register for classes. Students must also work or volunteer with patients under the supervision of a licensed physical therapist. This can be arranged through the Service-Learning Center at Calvin.

<i>First Year Fall Semester</i> Biology 205 Chemistry 103 Core courses	<i>First Year Spring Semester</i> Biology 141 Chemistry 104 Core or major concentration courses
<i>Second Year Fall Semester</i> Biology 206 Chemistry 253 Psychology 151 Core or major concentration courses	<i>Second Year Spring Semester</i> Mathematics 143 or Psychology 255 Psychology 201 Core or major concentration courses
<i>Third Year Fall Semester</i> Physics 221 Core or major concentration courses Chemistry 323	<i>Third Year Spring Semester</i> Physics 222 Core or major concentration courses

Physician Assistant

Students who would like to practice medicine under the supervision of a licensed physician should consider becoming a Physician Assistant (PA). A Physician Assistant can record medical histories, perform physical examinations, make diagnoses, counsel patients, order and administer laboratory tests, assist in surgery, set fractures, and, in most states, prescribe drugs.

Each graduate program determines their prerequisite courses, and since there is so much variability from one program to another, Calvin College does not offer a specific program for students who want to prepare for a career of Christian service as a Physician Assistant. Rather, students can major in any discipline so long as they complete the prerequisite courses for the graduate program to which they intend to apply. Students who desire to pursue a career as a Physician Assistant should contact either P. Tigchelaar or R. Nyhof for advice about preparatory courses and hours of direct patient care required by particular clinical training programs.