
ADVISING &
REGISTRATION
MANUAL
2009–2010

GUSTAVUS 

GUSTAVUS ADOLPHUS COLLEGE

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OUR HOPES FOR YOU

We hope you will take courses you have never heard of, never dreamed of taking. We hope you will be surprised by interests and abilities you didn't know you had.

We hope you will do your best work, whether for your major, general education (Curriculum I or Curriculum II) or elective courses.

We hope that your eventual Gustavus academic record will be complemented by what you've learned studying abroad, completing an internship, doing research on or off campus, and by taking advantage of opportunities to lead and to serve.

We hope you care about the quality of heart and character you could further develop during your college years.

THE GOAL OF REGISTRATION: Choose courses according to your thoughts and interests, high school preparation and scores — to be successful from the very beginning.

Information your advisor will have read: your high school transcript, ACT scores (if you submitted them), and your admission application essay.

Information you must bring to the conversation with your advisor: your interests and ideas for possible courses.

Your scores and your high school transcript are only indicators of your ability. What no one knows is your commitment to studying. No one knows how quickly you will be able to focus and concentrate on your courses, how well you will be able to organize and govern the use of your time, how well you will handle your independence. Your first semester of course work here quickly becomes a better predictor for success than your high school record.

Different course combinations represent different amounts of work. Be careful about your level of co-curricular activities. Be careful how you choose your involvements. **The number of co-curricular involvements is not important in college, the depth is. Graduate and professional schools will value your level of commitment rather than a long list of organizations. You need time to think.**

Doing well in your courses is first priority.

BASIC INFORMATION

1. You are registering for fall semester only.
2. You should register for at least 3.75 courses but not for more than 4.8. **Majors that should be started in the fall include biochemistry, biology, chemistry, elementary and secondary education, non-English languages, nursing, physics, sciences for pre-professional interests, music, math and computer science.**

3. The Rule of Thirds

You need 34 courses to graduate, about 1/3 for your major, 1/3 for either Curriculum I or Curriculum II general education, and 1/3 for elective courses - anything you want to take. All courses fulfill a requirement. Some courses will fulfill a major and general education requirement at the same time.

4. References

a. **Advising and Registration Manual:** how to prepare for registration by phone or on campus, sample beginnings for majors and pre-professional interests.

b. **Catalog (Academic Bulletin):** for course descriptions, graduation requirements, major requirements, which semester(s) courses are offered, the purpose of area requirements for Curriculum I, and a listing of courses for Curriculum II, go to <http://www.gustavus.edu>, click on Academics, General Catalog, and note graduation requirements for fall 2009.

c. **Course Section Schedule:** for you this first time, you have an abbreviated schedule of courses you are eligible to take. This schedule lists only fall semester courses and course descriptions of courses too new to be included in the catalog, and a description of First-Term Seminars for students in Curriculum I.

d. **Homework Assignments:** to prepare in advance for your conversation with your summer advisor.

DEFINITIONS

1. A **major** is a planned set of courses to give you enough depth to be prepared for a career, graduate or professional school. Courses required for a major are listed in the catalog by department. One major is required for graduation. (A traditional time to declare your major is spring semester of your sophomore year. See #2 above for majors that should be started fall semester.
2. A **pre-professional interest** (i.e. pre-med, pre-law) is not a major. You choose a major from one of our departments and also take recommended courses to prepare for the professional schools' admission tests.
3. A **minor** is about half of a major so there isn't the depth or expertise of a major. A minor is not required for graduation.
4. One **course** = 4 semester credit hours.
5. **Curriculum:** A general education curriculum is a group of courses (1/3 of your total courses) intended to give you variety and breadth in ways of thinking as well as in subject matter. It is the foundation upon which to develop an expertise in one major (1/3 of your total courses). The flavoring comes from your choice of electives, anything you want to take (1/3 of your total courses).

6. An **unofficial degree audit** is a work in progress that marks your progress toward graduation, showing you which major and general education requirements still need fulfilling and how many more course credits you need to reach the total of 34. You have access to this online on Web Advisor whenever you wish.

FACULTY ADVISORS

Summer: whether on campus or by phone, you will confer with a faculty advisor to register for fall.

First-Year: Curriculum I - your First-Term Seminar professor will be your advisor at least through fall semester. As soon after that when you are ready to declare your major, you will arrange for an advisor from your major department.

Curriculum II - your advisor will be one of your professors from either of your first two Curriculum II courses in the fall at least through fall semester. As soon after that when you are ready to declare your major, you will arrange for an advisor from your major department.

Major: When you are ready to declare your major, arrange for an advisor from that department. If you are interested in Athletic Training, Education or Nursing, you will apply for admission to those programs by your sophomore year. An advisor will be assigned to you at that time.

Faculty advisors and Career Center staff are also available to discuss graduate and professional school preparation as well as preparation for such scholarships and fellowships as Rhodes, Truman, Fulbright, etc.

FIRST-TERM SEMINAR

All Curriculum I students must register for a First-Term Seminar fall semester. This course assures you of a small class where you will read, write, and discuss, where you will practice critical thinking and recognize and explore questions of values - skills that will help you in the rest of your courses.

Your FTS professor will be your advisor for at least the fall semester and until you are ready to declare your major and arrange for an advisor from your major department. He/she will help you become familiar with the resources on campus, opportunities to help you excel, and will help you plan your registrations for subsequent terms.

It really doesn't matter which seminars you consider. There are usually no prerequisites for these courses. You are eligible for any of them.

CURRICULUM I AND II - SIMILARITIES AND DIFFERENCES

Similarities

Both are general education programs—an introduction to a variety of academic disciplines, areas of learning, and ways of thinking for you to develop a liberal arts base of learning, a context for the major you choose.

Both have goals common to the reasons for liberal learning: that you be more than the name of your major/career, your learning has both breadth and depth, you begin to see the relationship

among your courses, you move from remembering information to integrating the knowledge into how you see things and make decisions, and that you continue to learn on your own for a lifetime.

Both require approximately 1/3 of your total coursework at Gustavus. (Total number of courses is 34.)

Both offer courses that fulfill general education requirements only, as well as courses that may also apply toward a major or minor.

Both allow you to study overseas or arrange an internship during your junior or senior year, depending on your major.

Differences

In **Curriculum I** you select 9 courses from an approved list, which represent various academic areas (i.e., "The Arts," "Historical and Philosophical Studies," "Non-Western Cultures," etc.), choosing one or more each semester. One of the 9, a **First-Term Seminar**, is to be selected the fall semester of your first year. First-Term Seminar descriptions are part of your Course Section Schedule. Curriculum I is a distributional liberal arts core program.

In **Curriculum II**, you select a set of 9 courses from various academic areas, which have been designed to be taken in a recommended sequence. A theme of "the individual and the community" is important throughout the entire program, as it examines the Western intellectual and cultural tradition, its long continuity and the diversity within it, and introduces you to the global society in which we all live.

Cultural events, weekend retreats and special seminars for CII students and faculty complement the classroom activities. The senior seminar is a capstone experience where your learning and experiences come together with people you have come to know well in a final excellent semester-long conversation. **Curriculum II**, with its emphasis on connections among areas of learning, is known as an **integrated liberal studies** program.

CII is not an honors program, but it is definitely an enriched program with many out-of-class opportunities for learning, meant to be prescriptive and integrated but not restrictive.

When You Should Decide

Because both programs begin the fall semester of your first year, you will need to make your choice by the time you register for fall semester.

Enrollment in Curriculum II is limited to 60 first-year students per year. If you have not already notified the Admission Office or the Curriculum Office of your intention to be in CII, please call 1-800-GUSTAVUS, e-mail cii@gustavus.edu or use the application in the separate Homework section that accompanied this manual.

CURRICULUM I AND II - REQUIREMENTS AND DESCRIPTIONS

REQUIREMENTS FOR GRADUATION

1. Successful completion of 32 courses, with a maximum of one course in designated health and exercise science activities (HES-1 00 to HES-199), plus at least two Interim Experience courses. In other words, 34 courses are needed for graduation, 31 of which must be in courses other than physical education fitness (FIT), physical education activities (ACT) or Interim Experience (IEX) courses. (Transfer students admitted with advanced standing are also required to complete two Interim Experience courses.)
2. Two years (16 regular semester courses minimum) are required in residence, including the senior year. The senior year may be the last two semesters preceding the conferring of the degree or at least nine of the last 12 courses taken toward the degree. Exceptions to the senior year residency are made for students enrolled in Study Abroad Programs sponsored by the College and in cooperative programs with other institutions leading to a B.A. and professional degree. At least three courses of the 16 must be taken outside of the major department.
3. Three designated writing courses from at least two different departments. One of these courses must be taken in the first year (normally in the First Term Seminar). At least one designated writing course must be a WRITI (Writing Intensive) and one must be a WRITD (Writing in the Disciplines).
4. An approved major.
5. A cumulative grade point average of 2.000 or higher.
6. Completion of the core requirements from either Curriculum I or II (below).

CURRICULUM I (Distributive Curriculum)

The Curriculum I requirements represent approximately one-third of the total courses required for graduation and are intended to insure that each student has had a broadly based liberal arts education.

1. **First Term Seminar:** As part of their first semester course schedule, Curriculum I students entering Gustavus Adolphus College as first-year students enroll in one course designated FTS-100: First-Term Seminar. The FTS is a small, discussion-based course that introduces students to skills and habits central to the liberal arts: critical thinking, writing, speaking, and recognizing and exploring questions of values. The FTS professor will serve as the first year academic advisor. Each FTS carries a WRIT (writing) designation; FTS courses do not carry a general education designation. A list and description of FTS offerings is included in the Course Section Schedule that accompanied this manual.
2. **Completion of a non-English language requirement:** Curriculum I students will pass the beginning sequence in a non-English foreign language (the first two courses constitute the beginning sequence in all such languages) or will demonstrate equivalent proficiency.
3. **General Education Liberal Arts Perspective Courses:** Each Curriculum I student must complete nine designated general education courses (including at least one course from each of the following areas). No more than two courses from the same department may be counted. Courses can fulfill more than one general education requirement, but a total of nine general education courses must be completed.

Liberal Arts Perspective Courses

A Liberal Arts Perspective course teaches the principles of a particular domain of study, provides its context, questions the values of that domain, and builds bridges towards other disciplines.

1. **The Arts (ARTS).** Through modes of expression such as painting, sculpture, music, dance, theatre, and film, artists clarify, intensify, dramatize, and interpret the world in all of its physical, social, and spiritual aspects. Courses meeting this requirement in the visual and performing arts develop a more comprehensive understanding of the creative process and foster a lifetime involvement with the arts. These experiences enable students to recognize and value the integral role that the arts play in society; such experiences enable students to express themselves and their ideas in creative ways. Courses meeting this requirement in the visual and performing arts develop a more comprehensive understanding of the creative process and foster a lifetime involvement with the arts. These experiences enable students to recognize and value the integral role that the arts play in society; such experiences enable students to express themselves and their ideas in creative ways.

Departments Contributing Courses: ART, CLA, FRE, GRE, LAT, MUS, PHI, T/D

2. **Biblical and Theological Studies (THEOL).** The requirement of one regular semester course in the Christian tradition is a curricular expression of the College's long-standing commitment, articulated in the Mission Statement, to foster in its students a "mature understanding of the Christian faith." Included in such a mature understanding is a careful consideration of the role of religion in human life. Courses meeting this requirement help students understand religion as part of a liberal arts education through a biblical and theological study of the Christian tradition. These courses seek neither to inculcate the Christian religion nor to dismiss it. Rather, such courses help students develop a critical understanding and appreciation of the Christian tradition as an important entity in itself, and as an important element in world cultures.

Departments Contributing Courses: HIS, REL

3. **Literary and Rhetorical Studies (LARS).** The purpose of the Literary and Rhetorical Studies requirement is to help students revel in the beauty and power of the word; understand and enjoy the life of the mind as embodied in books and formal oral communication; and place themselves within the human community of storytellers, poets, orators, essayists, playwrights, satirists, and critics. Courses in this area will introduce students to literary and rhetorical genres, methods of analysis, and historical and cultural circumstances surrounding texts. These courses will help students formulate questions about issues of meaning and value, and will provide a context for the appreciation and/or personal expression of literature and rhetoric.

Departments Contributing Courses: CLA, COM, ENG, FRE, JPN, GRE, LAT, RUS, REL, SCA

4. Historical and Philosophical Studies (HIPHI). Philosophy investigates the nature of reality, knowledge, and values. History analyzes past events and constructs narratives that seek to explain those events. Thus, courses in Historical and Philosophical Studies critically interpret records of and reflections on human thought, action, and values across time and place and among diverse cultures and peoples. Courses in this area promote understanding of human thought in the context of historical developments, and historical developments in the context of their relation to questions of meaning and value. Historical and philosophical inquiries require that we ask fundamental questions about the construction and creation of knowledge, the roles of objectivity and subjectivity in the search for truth, and the relationship of human agency to theories of historical causation. Philosophers undertake their inquiries with awareness of the historical context in which ideas develop. Historians consider the intellectual milieu in which past events unfold and are interpreted.

Departments Contributing Courses: CLA, GEG, GRE, GWS, HIS, LAT, PHI, POL, REL, SCA, SPA, T/D

5. Mathematical and Logical Reasoning (MATHL). Courses in Mathematical and Logical Reasoning introduce the student to the methods and applications of deductive reasoning. As such, they focus on underlying axioms, theorems, and methods of proof. Considerable emphasis is placed on the application of these ideas to the natural and social sciences. They also place some emphasis as appropriate on the history of the discipline, its philosophical assumptions, the strengths and limitations of its methods, its relation to other disciplines, and its relation to social and ethical problems. Courses in this area will provide students with knowledge of the language of mathematics and logic; familiarity with mathematical, logical, algorithmic, or statistical methods; knowledge of practical applications, and appreciation of the role of the deductive sciences in the history of ideas, and of their impact on science, technology, and society.

Departments Contributing Courses: MCS, PHI

6. Natural Science Perspective (NASP). Liberal Arts Perspective courses in Natural Science introduce the student to the mechanics of natural and life processes, and the quantitative basis for understanding these processes. As such, they focus on the evidence, theories, and methods of the natural sciences and place them in a historical context. They also place some emphasis on the strengths and limitations of the methods employed, the philosophical assumptions, the boundaries and connections with other disciplines, and relationships to social, ethical, and political problems. Courses in this area will provide students with factual information about the natural world; knowledge of concepts, principles, and theories that scientists use to organize and explain those facts; familiarity with the application of scientific concepts and principles to the solution of problems; acquaintance with the historical development and philosophical implications of the scientific concepts; and sensitivity to the ethical and social impact of science and technology.

Departments Contributing Courses: BIO, CHE, EDU, GEG, GEO, HES, PHY, SCA

7. Human Behavior and Social Institutions (SOSCI). Courses in Human Behavior and Social Institutions seek to enable students to acquire the knowledge and skills necessary to understand fundamental social institutions and social characteristics of human beings. Courses in this area will address concepts used by the social and behavioral sciences to organize and to explain information about human behavior and social institutions, as well as the historical development of a particular social and behavioral science. They will also address methods of collecting and presenting information in the social and behavioral science, and social and ethical issues concerning human behavior.

Departments Contributing Courses: E/M, EDU, GEG, GWS, HIS, IDS, NUR, PCS, POL, PSY, REL, S/A, SCA

8. Non-Western Cultures Requirement (NWEST). The nature of contemporary world events makes an understanding of non-western and global perspectives a necessary component of any good liberal arts education. It is increasingly necessary for people involved in business, politics, economic development, religious interaction, and everyday life to function across traditional linguistic and cultural boundaries. Courses fulfilling the NWEST requirement will enable students to recognize difference in a pluralistic way while encouraging an appreciation of the importance of difference in common and cultural life.

This requirement may be fulfilled either by taking a NWEST course or by completing an appropriate study abroad experience. A NWEST course will focus predominantly on Non-Western material, and will provide students with an understanding of cultures, societies, religious worldviews and/or political/economic systems outside of the familiar western context. It will provide the student with the tools or opportunity to gain access to an understanding of others' cultures from within the context of those cultures.

A Study Abroad Experience will be a semester or year-long program centered in a Non-Western country. Study abroad will provide students with the opportunity to participate in an intensive exploration of, and experience in, another culture through classroom study and daily living. All students who study in non-English speaking countries must study the language of the host country while abroad.

Departments Contributing Courses: ART, ENG, FRE, GEG, GWS, HIS, IDS, JPN, MLC, MUS, PHI, POL, REL, S/A, SCA, T/D

9. Lifelong Fitness (FIT and ACT). Students must complete both the Personal Fitness (FIT) requirement (.5 course) and the Lifetime Activity (ACT) requirement (.5 course equivalent).

9a. The Personal Fitness requirement (FIT) encourages exploration of personal values and enables students to recognize and appreciate the importance of lifelong fitness. Students learn how to set appropriate goals to improve fitness, engage in regular aerobic exercise, and acquire knowledge regarding health promotion, disease prevention, and relaxation.

9b. The Lifetime Activity requirement (ACT) encourages students to select courses across a range of activity areas based on personal interest. Courses engage students in

activity designed to increase muscular strength and flexibility, improve psychomotor skills, and explore the connection between mind and body. Each course emphasizes appreciation of lifetime activity, health promotion, and reduction of risk behavior.

Department Contributing Courses: HES

CURRICULUM II (Integrated Core)

Curriculum II is an integrated studies approach to general education which explores the interrelatedness of the varied fields of learning. A theme of "the individual and community" is seen throughout the program as it examines the Western intellectual and cultural traditions. Students are challenged to address ethical values questions both in class and in the out-of-class Curriculum II sponsored cultural, social and intellectual activities. The courses listed below are open to Curriculum II students only. The program is available, by application, to any entering first-year student, subject only to a limitation of sixty students per entering class. It is supported by a grant from the National Endowment for the Humanities and enrolls students from all the major fields of study. The recommended sequence of courses is as follows:

First Year Fall

CUR-100 Historical Perspective I

CUR-140 The Biblical Tradition

First Year Spring

CUR-110 Historical Perspective II

CUR-120 The Individual and Morality

Second Year Fall

CUR-210 The Individual and Society (also offered in January)

CUR-220, 230, or 240 Fine Arts course (also offered in January)

Second Year Spring

CUR-250 The Literary Experience

Third Year Fall or Third Year Spring

CUR-260 The Natural World

Fourth Year Fall or Fourth Year Spring

CUR-399 Senior Seminar

In addition to the above:

1. Non-English language through the intermediate level (3rd semester)
2. One quantitative reasoning course, ie. MCS121 Calculus I, MCS115 The Nature of Math, or MCS140 Statistics, etc.
3. HES-100 .500 credit of Personal Fitness and .500 credit of physical education activities.

CURRICULUM II COURSES

CUR-100. HISTORICAL PERSPECTIVE I (1 course)

This course studies some of the people, ideas, and events that are regarded as the most influential in Western history. It provides a survey of civilizations from southwest Asia, Greece, and Italy, to the European Renaissance, with some reference to other Asian history and the interactions of Europe with other cultures. Concentrating on specific pivotal periods which illuminate crucial human problems, students will read and analyze primary sources in order to develop an understanding of history's significance for contemporary life and of the shifting nature of historiography itself.

CUR-110. HISTORICAL PERSPECTIVE II (1 course)

This course picks up where CUR100 leaves off in a sweeping survey of Western history. Among the themes covered are the revolutions in knowledge, religion, and politics; state development and international relations; discovery, exploitation, and predominance in the world; and the place of the West in the contemporary world. At times the perspective of the course will be global. The course will also seek to develop further an awareness of the "history of history," as well as what it means to think and work as historians.

CUR-120. THE INDIVIDUAL AND MORALITY (1 course)

This course will explore the historical and social context in which moral problems develop and in which human beings and their communities respond to them. It will investigate the ways in which politics, science, art and religion, for example, influence the formulation and resolution of moral problems. Non-Western approaches to ethics, morality, and individuality may also be included in the course. We will raise questions about the widely held view that values in morals, politics, science, art and religion are merely matters of taste.

CUR-140. THE BIBLICAL TRADITION (1 course)

This course will use the Bible as a primary source to study the role and major contributions of the Judeo-Christian tradition in the development of Western culture. It will give special emphasis to themes such as: faith and reason; the functions of symbol, ritual, myth, and literary genre; the shape of history; the world as the arena of divine creation, providence, and redemption; the communal identity and ethical goals of persons; and aesthetic dimensions of their interrelationship with non-human life and inanimate being.

CUR-210. THE INDIVIDUAL AND SOCIETY (1 course)

This course will introduce students to the study of individual behavior, social interaction or social institutions. The basic assumption, issues and methods of the behavioral and social sciences will be explored, and students will be asked to reflect on the role of the social sciences in understanding and evaluating society.

CUR-220. MUSICAL UNDERSTANDING (1 course)

This course provides students with an understanding and appreciation of the nature and place of music in contemporary culture. Music is a rich source of diversity in cultural influences as well as musical periods, styles and media. The composer's perspective, the performer's role and the listener's responsibility provide points of departure for considering the individual's contributions to music and communal reaction to differing types of music or musical developments. Students will be involved in activities such as listening to recorded performances of music, attending performances of music on and off campus, writing papers for class presentations, discussing special topics, and participating directly in musical performance.

CUR-230. THE VISUAL EXPERIENCE (1 course)

This course provides a basis for the appreciation of the visual arts in human experience. It does this through examination of artistic periods, artists, and individual works of art in a variety of artistic traditions. Students will explore both Western and non-Western traditions. Artistic events on and off campus will be integrated into the course. Although this is mainly a course on art appreciation, students will be involved in exploring their individual artistic creativity.

CUR-240. THEATRE ARTS (1 course)

This course provides the basis for understanding and appreciating the nature of theatrical art. Through the study of significant texts and historical contexts, the student gains a critical understanding of drama or dance. Through the study of the physical and imaginative nature of performance, the student gains an appreciation of the processes of theatrical art. The relationship of the individual and the community is approached in this course from the viewpoint of one or more theatre artists: the playwright, the designer, the actor, the director, the choreographer, the dancer. While the primary focus is upon western theatre, comparisons are made with non-western theatres or between minority and mainstream traditions in the West.

CUR-250. THE LITERARY EXPERIENCE (1 course)

This course analyzes works of various literary traditions in the context of the development of Western Civilization and examines the scope and importance of reading literature critically. Influential texts of diverse world literatures are also read and discussed. The course encourages students to think and write critically, to make aesthetic, intellectual and moral discriminations, to enjoy literature, and to compare the kind of truth literature offers with that of other forms of art and enquiry.

CUR-260. THE NATURAL WORLD (1 course)

This course will provide an historical view of the evolution of human understanding of the physical universe. It will trace the development of natural science from classical Greece to the rise of modern science in the 20th century. The course will point out the changing view of nature as represented by introducing working models and theories of science in their historical context. The relationship between the drive for unity and the perception of diversity in science will be explored. There will be one laboratory per week.

CUR-291, 391. INDEPENDENT STUDY

Opportunities exist in Curriculum II for students to develop independent projects under the supervision of a Curriculum II professor. Sometimes it may be possible to gain approval for an independent study to substitute for one of the regular Curriculum II courses.

CUR-268, 368. CAREER EXPLORATION, INTERNSHIP

This internship is designed to place students in situations where their Curriculum II integrated liberal arts studies are highly valued. Specific assignments will be determined for each program. Prerequisites: At least three semesters of CUII courses.

CUR-399. SENIOR SEMINAR (1 course)

As a capstone course for the Curriculum II program, this seminar calls upon students to contemplate questions concerning values in the context of the relationship between the individual and the community. The course's main activity is vigorous discussion of books and articles which raise issues concerning values in contemporary life from diverse cultural perspectives. The course's main product is a major paper in which students account for their own values from both theoretical and personal perspectives.

ADVANCED PLACEMENT

Advanced Placement

1. College Board Advanced Placement - A score of 4 or better will give you college credit. It is likely you won't know your score by the time you register. (Most reports arrive in July.) If you think you did well on a test that will allow you to register for the next course in the sequence, register that way. If you aren't sure, register as if you won't receive that credit from AP. If adjustments need to be made, the Registrar's Office will contact you well in advance of your arrival in the fall.
2. International Baccalaureate - Scores of 4 or above on the higher level exams give you college credit.
3. Post-Secondary Education Options Credit - Students who have taken college courses through a post-secondary education options program on the campus of accredited colleges and universities normally may transfer such work to Gustavus if those courses meet other requirements for credit stated in the college catalog. **To receive PSEO credit, you must ask the institution where you took courses to send an official transcript to the Admission Office as soon as possible.**

LANGUAGE PLACEMENT AND PROFICIENCY (Online Exam)

This test is intended to identify placement or demonstrate proficiency for fulfilling the non-English language general education requirement:

- * Curriculum I – first 2 courses or demonstrate proficiency
- * Curriculum II – first 3 courses or demonstrate proficiency

You **should** take this exam now:

- a. if you think you can **demonstrate proficiency** in French, German, or Spanish and have not completed post-secondary options (college) coursework in the language;
- b. if you are **planning to major** in French, German, or Spanish and have not completed post-secondary options (college) coursework in the language;
- c. if you **plan to continue** French, German, or Spanish **this fall** and have not completed post-secondary options (college) coursework in the language.

You **should NOT** take this exam now:

- a. if you plan to fulfill the requirement with a language other than French, German, or Spanish;
- b. if you want to take French, German, or Spanish later, not this fall;
- c. if you want to begin a new language;
- d. if you scored 4 or above on an Advanced Placement foreign language exam.

If you have had previous experience in **Russian or Japanese**, you can confirm your placement during Orientation in the fall by contacting Dr. Denis Crnkovic for Russian or Dr. Toshiyuki Sakuragi for Japanese. Guidelines for provisional registration: 1 year of high school – 101; 2 years of high school – 102; 3 years of high school – 201, and 4 years of high school – 202. If you qualify for 102 or 202, you might have to wait until spring semester when they are offered.

If you have had previous experience in **Latin, Greek or Swedish**, you can contact Dr. Will Freiart for Latin and Greek and Dr. Roland Thorstenson for Swedish in the fall. If you have previous experience in **Sanskrit**, you can contact Dr. John Cha.

To demonstrate proficiency in **a language which Gustavus does not teach** and for which we do not have an existing examination protocol, non-international students whose first language is not English may obtain a letter, on letterhead stationery, from a respected member of the community who speaks the language. This might be a leader in a community organization, a church leader, someone who teaches the language to younger members of the community, or a supervisor with whom the student has worked. This individual should write a letter verifying that the student can both speak and has proficiency in either reading or writing the language. The writer of the letter should indicate in what connection he or she has known the student and how they know of the student's language proficiency. The student's Gustavus ID number should be included in the letter, which can be sent to the Registrar, Gustavus Adolphus College, 800 West College Avenue, St. Peter, MN 56082. Members of the Language Task Force will evaluate the evidence and make a determination about whether the student has met the language requirement.

Instructions for Accessing and Taking the Placement/Proficiency Exam for French, German or Spanish

(This exam will not be given on campus.)

Please do not use a dictionary or any other help as it will skew your score, resulting in incorrect placement. More seriously, this would be considered a violation of our Honor Code.

The exam will take about 20 minutes. **It will be scored immediately** and you will be given a recommendation for course placement. With a score of 300 or higher, you will have fulfilled the Curriculum I language requirement, and with 400 or higher, the Curriculum II requirement.

If you experience technical difficulties and are unable to access or complete the exam, please contact Jenny Tollefsen (jtollefs@gustavus.edu) who can answer questions about computer access, the exam and exam results. She can be reached on Tuesdays during the summer.

1. Open your web browser and set your location to <http://webcape.byuhtsc.org/nwregister.php?acct=gac>
2. Type in the password: `gusties1`

3. Follow the instructions (identify yourself with your full legal name and ID number) and click FINISH after you have completed the exam.
4. You will not know all the answers since the exam covers all language levels. Simply answer the questions to the best of your knowledge.

CALCULUS PLACEMENT (Online Exam)

Some students, but not all, have a reason to take calculus (MCS118-119 or MCS121).

Some specific majors require calculus, and each of the general education curricula (Curriculum I and Curriculum II) has a requirement that can be satisfied by taking calculus, but also with a different course in mathematics, statistics, computer science, or logic.

The **online calculus placement** tests are intended to identify the correct entry point into the **calculus** sequence for this fall for those students interested in:

- a. studying calculus
or
- b. fulfilling the general education requirement with calculus (testing into MCS122 (Calc II) will not give you credit for MCS121 (Calc I) for the general education MATHL requirement
or
- c. majoring in one of the sciences, management, economics or accounting, mathematics or computer science.

You do not need to take this test if you are not interested in calculus for any of the above reasons.

You do not need to take this test if you are transferring in a calculus credit from Post-Secondary Options or think you scored 4 or higher on the Advanced Placement calculus exam. (The Registrar's Office will record your credit from a score of 4 or higher in July when scores are sent to Gustavus. If changes in your schedule need to be made, the Registrar's Office will contact you.)

If you are planning to take calculus in the fall, you must take the online placement exam **at least one week prior** to your registration appointment, whether you are coming to campus for registration or registering by phone.

Instructions for Accessing and Taking the Calculus Placement Exam

(This exam will not be given on campus.)

If you encounter technical problems or have questions, you may send an email to a math professor at calculus-placement@gustavus.edu.

To take the placement test, you will need ½ hour when you can work without interruption, and you will need scratch paper and a pencil. We also encourage you to have a calculator.

You will take the test at the following web site:

<http://gustavus.placementtester.com/classes/calculus/>

Once you access this site, you should use only the navigational buttons within the site, not your web browser's "back" button. You need to do three things, by selecting the appropriate links on the site:

1. Register for the site by selecting Register as a student in this class. Use your name and student ID number, which you will find in the top right corner of the "Planning for Registration..." document. You will choose a username and password for use in the next two steps.
2. Take the appropriate **Readiness Test** for your background, as listed below. This test is limited to 30 minutes.

If you have taken calculus already, take the test "**Readiness for Calculus II.**"

If you have not taken calculus, but have taken four years of high school math, including a course such as Pre-calculus, FST (functions, statistics, trig), or Math Analysis, take the test "**Readiness for Calculus I.**"

If you have taken three years or fewer of high school math, and in particular, have not taken a course such as those listed above, then take the test "**Readiness for Calculus/Pre-calc Review 1a.**"

3. When you are done, you must use the "**Grade**" button to submit your results. **Do not** use the "Quit & Save" button, which leaves the 30 minute clock running but does not submit your work for us to see. Note that there are buttons at the top of the page to move through the questions forward and backward as well as a drop-down list that lets you go directly to any particular question. Using these features, you can go back to recheck your work on earlier problems within the 30 minute period. Once you click the "**Grade**" button, however, your answers are final. You may not retake the test.

REGISTRATION ON CAMPUS

Bring the following:

Advising and Registration Manual:

Course Section Schedule

Catalog

Completed Homework Assignments

Class Time Planners—possible schedules

Course Request sheet (not filled out but signed showing you agree to abide by the Gustavus Adolphus College Honor Code - you will not be able to register without signing that agreement)

Completed Census Form (with social security number)

Completed Music Profile

Driver's license (photo ID) AND one other form of identification listed below **if student employment is part of your financial aid award.** (You will not be allowed to work if you have not completed a W4 form and an I-9.)

- a) Original Social Security Card
- b) Certified copy of your Birth Certificate
- c) Native American Tribal Document
- d) U.S. passport for U.S. citizens

- e) Unexpired foreign passport with an I-551 stamp or INS Form I-94 indicating unexpired employment and authorization
- f) Alien Registration Receipt Card with photograph (INS Form I-151 or I-551)
- g) Certificate of Naturalization (INS Form N-550 or N-570)
- h) Certificate of U.S. Citizenship (INS Form N-560 or N-561)

What You Will Accomplish During Registration On Campus

1. You will have a complete registration for fall semester (the only unknowns will be for those who are auditioning in the fall for a music ensemble and for those interested in playing a varsity sport).
2. You will know why you have the schedule you have and how it begins your progress towards your BA degree.
3. You will know which requirement(s) your courses fulfill - electives, general education and major.
4. You will have your ID picture taken for the campus directory and your ID card.
5. You will have signed up for campus employment.
6. You will have a chance to finalize finances.
7. You will be able to buy *Chinese Lessons*, the Reading in Common book for first-year students, to discuss during Orientation.
8. You will have a chance to tour residence halls and ask questions although you won't know your housing assignment until later in the summer.
9. You will turn in all your forms (Census Form, Music Profile, Financial Aid, Health, etc.) to the "One Stop Shop". You will turn in your Course Request sheet when registering.

There will be information about campus technology, study abroad opportunities, health service, transition issues, and more offered throughout the day.

REGISTRATION BY PHONE

You will call the Admission Office, 1-800-GUSTAVUS, to make an appointment time for a faculty advisor to call you to help you register. **In order to register, you must agree to abide by the Honor Code (on the backside of your Course Request sheet and on the inside cover of this manual).** Your advisor will sign on your Course Request sheet that you have read and agree to this code after you have discussed it.

In preparation for that call, list (10-20) courses you would be interested in and then plot some of them on the Class Time Planner sheets for days and times they meet.

You will have a complete registration for fall semester (the only unknowns will be for those who are auditioning in the fall for a music ensemble and for those interested in playing a varsity sport).

You will know why you have the schedule you have.

You will know which requirement(s) your courses fulfill - electives, general education and major.

You will have your ID picture taken during Orientation in September.

Send forms to appropriate offices.

******To begin arranging for your campus employment,** send your W4 form and student employment application to the Student Employment Office. During Orientation, bring two forms of ID (one photo ID - drivers license) and one other (social security card, for example) to the Student Employment Office in the Carlson Administration Building to arrange for your employment.

MAJORS

Majors that should be started fall semester in order to graduate on time include biochemistry, biology, chemistry, elementary and secondary education, nursing, physics, sciences for pre-professional interests, music, math and computer science.

Information that follows includes recommended ways to begin a possible major. Information about the major can be found in the catalog. In this manual, there will be more information about those majors that have certain time restrictions to be aware of and less about those majors where there is more flexibility of sequence and timing. Use your homework preparation along with this section.

In the Pre-Professional Interests section, there is more extensive information because of the importance of sequence and timing in order to be prepared for admission exams for the professional schools.

ART STUDIO AND ART HISTORY

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall
ART 101 Art History
or ART 110 Drawing
or ART 117 Studio Found.

Spring
ART 102 Art History
or ART 110 Drawing

BIOCHEMISTRY AND MOLECULAR BIOLOGY

The interdisciplinary biochemistry major is intended for students planning graduate studies in areas close to the interface between chemistry and biology, such as biochemistry, biophysics or molecular biology. By selecting their electives in the major, students can tailor the program to place additional emphasis in either the chemistry or biology area. (See the catalog for course information and planning.)

BIOLOGY

ADVISING NOTES FOR BIOLOGY, PRE-HEALTH PROFESSIONS

If you are considering a **biology major or a pre-health profession like medicine** or some other health sciences, we strongly advise you to take both BIOLOGY 101 AND CHEMISTRY 107 in your first semester. These courses are offered only fall semester and begin a sequence. **We know that taking these two classes in the first semester challenges many first-year students. You will be asked to study harder and learn more than ever before, so you must be ready for the challenge.**

(Please note, not all pre-health professions require beginning with both BIO and CHE. See Pre-Professional Interest section in the back of the *Adv. Reg. Manual*.)

Register for both BIO101 and CHE107 and two other courses if you fit this profile:

1. ACT of 25 or above;
2. A and B grades in high school biology and chemistry courses;

3. willing to work from day one – and willing to study hard and frequently. Plan to actively engage in all lectures and labs, to study and review material **7 days/week, at least 2 hours/day/class plus time for study groups**. You must be able to manage time well. Studying 1 or 2 days before the exam does not work for these classes.
4. **commitment to/ passion for science** – don't bother if you are only casually interested or medicine is more of a lifestyle choice than an academic interest;
5. realize there is keen **competition** in these classes because there are many students who possess this commitment and passion toward biology – they know they need to do well from the very first semester.
6. keep in mind that you have 10 weeks into the 14 week semester to withdraw from a course if this combination turns out to be too much.

Register for one of the options below if you fit this profile:

1. ACT below 25;
2. low B's or C's in high school biology and chemistry;
3. casual commitment to BIO, CHE or health professions;
4. you take your involvement in athletics, music, student employment, or social activities more seriously than your biology studies and/or you have poor time management skills.

Options:

1. BIO101, CHE107, FTS plus .750 credits from MUS, HES, or T/D;
2. BIO101 plus three courses – see consequences below;
3. CHE107 plus three courses – see consequences below;
4. If you are interested in a **biochemistry major**, you should start with CHE107 and MCS121 (if calculus is the appropriate level for you) plus two other courses.

Consequences of these options:

1. On the positive side, the alternative option of taking only one science class might assure a good start in terms of grade point average for the semester.
2. You will be “off-track” and it may impair your choices as a junior or senior. If you are a BIO major starting with BIO only, the CHE sequence must be started in the sophomore year, so you must wait for BIO201 and BIO202 until your junior year because you need the chemistry courses as pre-requisites for BIO201 and BIO202. This can be done, and it's smart if you aren't certain of your commitment to the major, but it means that you will have more upper division courses in your senior year and it can be difficult to fit in study abroad (except January Term).
3. If you are a BIO major starting with CHE only, you begin your BIO sequence your sophomore year, and again, the same consequences are true as in #2 above.
4. If you are thinking of medicine, beginning slower might mean taking the MCAT in your senior year instead of your junior year, putting med school off for one year. If starting slower helps you establish a strong gpa, and positions you better for med-school, it's worth waiting one year. (Many students go to med school 1-4 years after college.)
5. You really can't count on finding summer school classes to catch up. It might be possible, but don't count on it.

If you are registering for BIO101 or CHE107 only to fulfill a NASP (natural science perspective in Curriculum I), you should be aware of other courses that also fulfill the NASP requirement, not all of which are offered fall semester:

BIO100 – Explorations in Biology (non-biology majors)

BIO118 – Microbes and Health

CHE102 – Chemistry in Context (non-chemistry majors)
EDU246 and 247 – Science Elementary Education I and II (**for Elementary Education majors**)
GEG105 – Physical Geography
GEG108 – Weather and Climate
GEO111 – Principles of Geology
PHY100 – Physical World (non-physics majors)
PHY102 – Astronomy/Cosmology (non-physics majors)
PHY104 – Sound and Music (non-physics majors)

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall	Spring
BIO101 Principles	BIO102 Organismal
CHE107 General Chemistry	CHE141 Organic Chemistry

CHEMISTRY

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall	Spring
CHE107 General Chemistry	CHE141 Organic Chem
MCS121 Calculus I	MCS122 Calculus II

CLASSICS

Classics is an interdisciplinary major that functions as the foundation of a liberal arts education. Courses include the Latin and Greek languages, ancient history, art and archeology, and literature, as well as subjects from other departments. It is important to start Latin or Greek as early as possible. Many study Latin or Greek because of their proven impact on English vocabulary and verbal skills.

Fall	Spring
1. LAT101 Elem. Latin or GRE101 Elem. Greek	1. LAT102 Elem. Latin or GRE102 Elem. Greek
2. REL110 The Bible or CUR140 Biblical Tradition	2. CLA101 Myth and Meaning
3. FTS100 First Term Seminar or CUR100 Historical Perspective	3. Elective
4. Elective	4. Elective

COMMUNICATION STUDIES

Our introductory courses do not require prior knowledge of the fundamentals of speech and communication studies. Public Discourse (COM120) and Interpersonal Communication (COM117) are recommended for potential COM majors.

ECONOMICS AND MANAGEMENT

The department offers four majors: Economics, Management, International Management, and Accounting. Each major requires completion of the departmental core: E/M101, E/M102, E/M130, E/M125, and MCS121. Students are advised to take E/M101 and E/M102 in consecutive semesters, and to take MCS121 prior to E/M125. Students should not take MCS140 (Statistics).

Possible First-Year Program: Besides the listed courses, it is recommended that you choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall	Spring
E/M101 Macroeconomics	E/M102 Microeconomics
FTS100 First-Term Seminar	MCS121 Calculus

EDUCATION

All students planning to enter education programs are encouraged to contact the Coordinator of Teacher Admissions and Field Experiences in the Education Department for information about programs and required coursework. Please see the catalog for more complete information.

A. Elementary Education Major: The Department of Education offers an Elementary Education major that qualifies you for licensure to teach Grades K-6 in all subjects and also to teach at the middle school level (Grades 5-8) in a specific area of concentration (Communications Arts/Literature, Social Studies, Math, Science or Spanish). Elementary Education majors need to make careful choices of their course work each semester to complete the major in 4 years.

Because many of the courses that are required in the Elementary Education major also meet the Liberal Arts/General Education requirements, interested students as well as students who are undecided but are considering Elementary Education as a possible major, should take courses from the list below. Please note that FIT (fitness), ACT (activity) and ARTS courses will be met through requirements for the major.

B. Secondary Teaching: To qualify for secondary licensure (Grades 5-12), students will major in a teaching discipline (Communication Arts/Literature, Chemistry, Earth and Space Science, Life Science, Mathematics, Physics or Social Studies) and then complete the education courses to teach at the secondary level.

C. K-12 Teaching: Licensure for grades Kindergarten through 12 is offered for students with majors in Health, Physical Education, Music, Visual Arts or World Languages who also complete the necessary education courses to prepare to teach at all levels from Kindergarten through grade 12.

All students considering Education as their major should plan to take EDU 268 (usually in their first J-Term). This course involves shadowing a teacher throughout the month of January.

Elementary Education:

FTS100 any First Term Seminar
COM120 Public Discourse
PSY100 Gen. Psychology
*MCS115 Nature of Math
*MCS140 Elementary Statistics -
(Math concentration take MCS 142)
GEG102 World Regional Geography
HIS130 U.S. History Pre-Civil War
HIS140 U.S. History Post-Civil War
General Education Courses
THEOL
Non-English Language

Secondary Education

FTS100 any First Term Seminar
PSY100 Gen. Psychology
Courses in the possible Teaching Major
General Education Courses

Do not register for two math courses in one semester.

NOTE: Elementary Education students who are choosing a science concentration, can begin with an introductory science course (BIO101, CHE107, GEO111, GEG108). All other Elementary Education students must take the science sequence EDU246 and EDU247.

ENGLISH

The department offers a major in English, as well as a major in English with a Writing Emphasis. The department also contributes to a Communication Arts and Literature Teaching Major, in coordination with the Communication Studies and Education departments. Students are advised to complete ENG 114, ENG 115 or 116, and ENG 121 or 122, within the first two years of coursework.

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall
FTS100
ENG115 or ENG116 or
ENG121 or ENG122
Electives

Spring
ENG114
ENG115 or ENG 116 or
ENG121 or ENG122
ENG126

ENVIRONMENTAL STUDIES

A rich array of faculty expertise, courses, and internships supports an interdisciplinary approach to environmental studies at Gustavus. Careful planning is essential from the beginning because of the **sequential nature** of many of the courses. Students should consult with an advisor from the department of their concentration as soon as possible. Concentrations include possibilities such as Biology, English, Economics, Geography, Geology, Interdisciplinary Studies, Philosophy and Political Science.

Ten core courses for foundational knowledge of important ideas, concepts, theories, facts and principles related to the interdisciplinary study of the environment.
 ENV110, BI0101 and either BIO102 or BIO245; GEO111, GEO246; E/M102 or POL260;
 ENG128 or GEG350; GEG243; PHI109; ENV399. See catalog for the other major requirements.

You can begin your program in a number of ways; the following is only one possibility.

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas according to your choice of Curriculum I or II, courses in your concentration or choose electives.

Fall FTS BIO101 or GEO111	Spring E/M102 BIO102 (if BIO concentration) GEG243 ENV110
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GENDER, WOMEN AND SEXUALITY STUDIES

Gustavus Adolphus College offers a major and minor in Gender, Women and Sexuality Studies. This interdisciplinary program examines gender and sexuality as cultural and social categories that organize and shape human experience. Students will interrogate the social meanings of femininity, masculinity, sexual behavior, and desire as integral to the ways that groups and individuals construct their identities within and across a variety of historical, social, and cultural contexts. To this end, students will also examine the ways that gender and sexuality intersect with other categories of social difference such as race, class, ethnicity, nationality, religion, ability, and age. Students will explore such topics as constructions of femininity and masculinity, the history of feminism, gender roles and relations, and cultural configurations of sexual desire and identity in discussion-based classes.

First-year students interested in this program are encouraged to take the introductory class during their first year. Additional GWS courses appropriate for first-year students are S/A231: Kinship and Marriage, S/A235: Social Inequality, ENG117: American Women Writers, HIS231 : Women in America, HIS238: History of Sexuality in America, PHI102: Racism and Sexism.

GEOGRAPHY

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall GEG101 Intro to Human Geog. or GEG102 World Reg. Geography or GEG108 Weather and Climate	Spring Geography Elective Electives
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or
GEG105 Intro to Physical Geog.
FTS
Electives

GEOLOGY

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas according to your choice of Curriculum I or II, or choose from electives.

Fall
GEO111 Principles
MCS121 Calculus I

or
CHE107 General Chemistry I

Spring
GEO112 Evolution of the Earth
CHE141 Organic Chemistry I

or
MCS122 Calculus II

HEALTH AND EXERCISE SCIENCE

The department offers four majors including Athletic Training, Health Fitness, Health Education, and Physical Education. Students interested in teacher education normally double major in health and physical education and complete the minor in coaching. If a student completes the Health Fitness major, the student may also choose to complete a pre-professional program such as physical therapy or occupational therapy, or a cluster of science courses in preparation for graduate study. Students interested in Athletic Training often double major with health fitness, health education, or a pre-professional program. In addition to the four majors, the department offers a minor in coaching and a range of courses that may satisfy the FIT and ACT general education requirement.

Students interested in a major or minor offered by the department should contact the individual listed below:

Physical Education and Health Education - Dr. Jeanne Herman (jherman)

Athletic Training – Kyle Momsen (kmomsen)

Health Fitness – Dr. Bruce VanDuser (bvand)

Coaching Minor - Dr. Aaron Banks (abanks)

Because the majors are highly sequenced, it is critical that interested students contact the appropriate advisor during fall semester of the first year.

Physical Education Major

Fall, First Year

PSY 100

T/D 102

FTS 100

Plus one course that counts toward completion of other general education requirements

*Because majors in Physical Education often combine this major with Health Education, see below for other suggested courses.

*Do not enroll in HES 100 or any ACT (activity class)

*Do not enroll in NASP course; taken later in majors sequence

Health Education Major

Fall, First Year

PSY 100

COM 120

FTS 100

*Plus one course that counts toward completion of other general education requirements.

*Because majors in Health Education often combine this major with Physical Education, see above for other suggested courses.

Athletic Training Education Program

Fall, First Year

Complete either BIO 101 or CHE 107 with lab

*Plus other courses required for completion of general education requirements.

Health Fitness Major

Fall, First Year

Complete either BIO 101 or CHE 107 with lab

*Plus other courses required for completion of general education requirements.

HISTORY

Any 100-level course, including CUR100 for students in Curriculum II and all 200-level courses (except HIS200) are appropriate for first-year students. Students with AP credit should especially consider taking a 200-level course (except HIS200) in the first year.

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall

One of the following:

HIS110 Modern Europe I

HIS120 Mod. Europe II

HIS130 Am. History

HIS160 Mod. Latin Am.

HIS170 Mod. East Asia

or

CUR100 or any level II course

Spring

One of the following:

HIS120 Mod. Europe II

HIS140 American History

HIS160 Mod. Latin Am.

HIS170 Mod. East Asia

or

CUR110 or any level II course

JAPANESE STUDIES

You will see the interdisciplinary nature of this major as its courses come from Japanese language, ENG238: Japanese Literature; POL255: East Asian Politics and Development; REL235: Zen and Japanese Culture and REL355: Buddhist Philosophy. You should begin immediately with the language. See catalog for details.

MATHEMATICS AND COMPUTER SCIENCE

The department offers courses in mathematics, computer science, and statistics. Any one of these three areas can be used to satisfy the Curriculum I MATHL general education requirement, as can a few courses from other departments. Curriculum II students must take one quantitative reasoning course chosen from among The Nature of Mathematics, Calculus I, one of the statistics courses or other approved courses.

Students may also wish to take courses in this department to make progress toward a major in mathematics or computer science, or another major, such as in the natural sciences, education, economics, management or accounting. Because a single course can fulfill both a general education and a major requirement, it is useful to consult major requirements before selecting a MATHL course. **Typical entry-level courses for students majoring in mathematics or computer science are one of the calculus courses and MCS177, Introduction to Computer Science I.**

Mathematics: Students choosing to take a math class, but who are not interested in calculus and do not need it for a major, are advised to take MCS115, The Nature of Mathematics. Students registering for calculus should take a **calculus placement test. See instructions in Calculus Placement section of this manual.**

Students with a good high school background in algebra and trigonometry normally start with MSC121, Calculus I. Those with more limited background can start with MCS118, Calculus with

Pre-calculus Review 1a. However, they will need to continue through the successor course, MCS119, Calculus with Pre-Calculus Review 1b), in order to receive MATHL credit and in order to have completed the equivalent of the normal Calculus I.

Those who have already studied calculus may instead take MCS122, Calculus II.

Computer Science: Students desiring a broad introduction to computing and the way the Internet works should take MCS170, The Nature of Computer Science. Those wishing a more rigorous, mathematical introduction, or planning to major in either mathematics or computer science, should instead take MCS177, Introduction to Computer Science I.

Statistics: Students who have studied calculus should take MCS142, Introduction to Statistics, whereas those without calculus should take MCS140, Elementary Statistics.

Elementary Education majors who wish to pursue the mathematics concentration need to choose MCS142.

Economics/Management majors should **not** take MCS140.

MODERN LANGUAGES, LITERATURES, AND CULTURES

See language placement information at the beginning of this manual. Remember that Curriculum I requires the proficiency of two semesters of a foreign language and Curriculum II three semesters, and that to be eligible for Phi Beta Kappa, four semesters.

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall
Foreign Language
101, 201, or 251

Spring
Foreign Lang.
102, 202, or 252 etc.

MUSIC

ADVISING NOTES IF YOU ARE INTERESTED IN MUSIC

I. If you are planning to be a Music major:

*Register for an audition (voice, string, wind/percussion, handbell, recorder, piano/organ):

MUS-090-001 Voice Audition
MUS-090-002 String Audition
MUS-090-003 Wind/Percussion Audition
MUS-090-004 Handbell Audition
MUS-090-005 Recorder Audition
MUS-090-006 Piano/Organ Audition

*Register for lessons (200-level) on your instrument or voice (see course list in MUS section of Course Section Schedule.

*Register for Music Theory (MUS-103 & 111). There are four sections of each available.

*Reserve .25 course load in your schedule for a large ensemble registration. You will complete your official registration immediately after auditions in the fall, when you know the ensemble(s) to which you have successfully auditioned.

II. If you are planning to be involved in music but NOT as a Music major:

*Register for an audition (see audition registration course numbers above).

*Consider registering for lessons on your instrument or voice. (See MUS section of Course Section Schedule.)

*Reserve .25 course load in your schedule for a large ensemble registration. You will complete your official registration immediately after auditions in the fall, when you know the ensemble(s) to which you have successfully auditioned.

III. If you received a Jussi Bjorling Music Scholarship or Gustavus Music Award:

*Register for an audition (see audition registration course numbers above).

*Register for lessons (200-level) on your instrument or voice. This is required of recipients of Jussi Bjorling Scholarships or Gustavus Music Awards. (See the course listing in the MUS section of the Course Section Schedule.)

*Follow the registration instructions for either I or II above, depending on whether you plan to be a music major or non-major with music interest.

VERY IMPORTANT: If you are registering for a class that requires a lab, seek to avoid schedule conflicts with ensemble rehearsal times. For example, several ensembles meet in the late afternoon or evening.

Gustavus Choir (4:30-5:40)

Choir of Christ Chapel (4:30-5:30)

Lucia Singers (Tues and Thurs. 3:30-4:20)

Gustavus Wind Orchestra (M,T,R,F 4:30-5:20 and 4:30-6:00 Wednesdays)

Vasa Wind Orchestra (Mon., Tues., Thurs. 5:30-6:20)

Gustavus Symphony Orchestra (Tues. and Thurs. 6:30-8:20; String Sectionals Wed. 7-7:50)

Gustavus Philharmonic Orchestra (Mon. and Wed. 5:45-7:00)

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall

MUS111 (Theory 1) (.75)

together with MUS103 (.25)

Music Lessons (.5)

Music Ensembles (.25)

Elective or Personal Fitness (.5)

Spring

MUS112 (Theory 2)(.75)

together with MUS104 (.25)

Music Lessons (.5)

Music Ensembles (.25)

(PSY100 suggested if you plan to go into Education)

Elective or Activity (HES) (.250)

Those interested in a major are encouraged to identify an advisor in the Department of Music during the first year so that a four-year plan can be developed before registering for the second year of classes. If there is even the possibility you will major in Music, you should enroll in MUS103, MUS111, lessons, and an ensemble in the fall semester of your first year.

ABOUT PERFORMANCE STUDIES

Music Lessons: (MUS245-267 ARTS) - (.500 credit)

Individualized instruction is available for the student who wishes serious study of an instrument or voice. This is a chance to work with a teacher who is a specialist on his/her instrument. Specifics vary between the vocal, instrumental and keyboard areas, but in general, the goal is to develop all-around musicianship through work on technique, literature, and other performance aspects. In addition to the time spent with the teacher, requirements include six hours of practice per week, supplementary studio/seminar classes on a regular basis, and attendance at seven recitals/concerts each semester. Students of ensemble instruments and voice are expected to participate in an appropriate ensemble. Pianists are generally expected to accompany at least one individual as part of their course of study. The Arts (ARTS) requirement for Curriculum I general education can be satisfied with two semesters of .500 credit music lessons. Singers may also study voice by enrolling in Voice Class (MUS129). Voice Class combines individual and group training. It is a .250 ARTS course with no lesson fee and no audition required.

All first-year students can register for lessons with the rest of their fall courses, but they must audition during Fall Orientation to validate that registration. Students need to audition in each area in which they want to participate: piano and organ students audition to insure their enrollment in the correct level of study; instrumental and vocal students audition for both lessons and ensembles in one hearing. Students interested in classical guitar study should come to the Instrumental Audition Site to receive further information-a conference with the guitar instructor will be arranged. Students taking lessons are encouraged to enroll in an ensemble.

All first-year students, except those who have received a music scholarship, pay \$400 for music lessons the first year. Students intending to major in Music declare that intent during the music theory course in the spring and play/sing an Audition for Music Major at the end of spring semester. In the following three years (as a music major) there is no fee for lessons.

Music Ensembles: (MUS150-193 ARTS) - (.125/.250)

Most individuals find that the group performance experience is one of the greatest attractions of music-making. Performance opportunities at Gustavus exist for individuals with varying amounts of time to devote to their musical interest. It is possible to complete the entire ARTS requirement through ensemble participation. Ensembles are open to all students by audition - the audition will result in individual placements based on the student's interests and abilities. Ensemble audition results are announced after upperclassmen finish auditioning. By the second day of the semester the student will know in which groups he/she will be playing/singing. See section on auditions for more information. Students enrolled in an ensemble are encouraged to take lessons in order to insure the maximum growth for the individual musician. Several of the music ensembles tour during the year.

Auditions:

Auditions for all Gustavus music ensembles and lessons are held in the Music Building during Fall Orientation. There are separate auditions for Piano, Organ, Vocal, and Instrumental areas. Sign-up lists are to be found at the Music Department Information Table in the second floor lobby area of the Music Building. (At the same location one can indicate interest in Handbells, Early Music Ensemble, Recorder Class and various other special areas.) In addition to determining whether the student has the necessary background for lessons, vocal and instrumental auditions determine where each individual would best fit into one or more of the Gustavus performing groups.

Generally, if you have an interest in being involved in a music ensemble, there will be a place somewhere for you.

Vocal Auditions consist of guided vocalizes, pitch memory patterns and sight-singing. Singers are not required to prepare a piece, but are encouraged to perform one if they have it ready. If not, they will be asked to sing a stanza of a hymn or patriotic tune they already know. An accompanist is provided. Bring a copy of your class schedule along to the audition.

Vocal Information:

Touring choral groups (.250) at Gustavus are the Gustavus Choir and the Choir of Christ Chapel. Other ensembles rehearse fewer days: Lucia Singers, Birgitta Singers, St. Ansgar's Chorus, and Chamber Singers. Christmas in Christ Chapel, music theater, opera scenes, choir tours and concerts, daily and Sunday Chapel services, and various special events on and off campus are just some of the choral/vocal experiences.

A typical registration for the student entering Gustavus as a non-music major but interested in continued growth as a vocal musician consists of the following:

1. voice lessons
2. one choral ensemble

Instrumental Auditions consist of scales for warm-up and demonstration of tone quality, sight-reading, and part of a prepared solo, if possible. Jazz Ensemble rhythm section auditions are conducted in an ensemble setting. School instruments are available for use by students performing with the various ensembles. For further information about specific groups, students should talk to area faculty who will be at auditions.

Instrumental Information:

Gustavus offers a wide variety of courses for instrumentalists: concert bands, orchestras, and brass, jazz, percussion, string, and woodwind ensembles. Both large and small chamber music groups are options for the student interested in performing. In addition, there are Handbell Choirs and an Early Music Ensemble. While a student-directed pep band is often assembled for athletic events, a marching band program is not part of the curricular offerings.

Students performing on the larger instruments in ensembles will be provided with a school-owned instrument. Typically, violins, flutes, clarinets, alto saxophones, trumpets and trombones are owned by individual students. The larger instruments may be owned by the individual or by the school. School-owned instruments will be assigned as ensemble placements are made. (There is an Instrument Maintenance Fee of \$50 per semester for school-owned instruments.) Anyone wishing to use a school instrument for audition purposes can arrange to get an instrument by coming to the Instrumental Audition area during Orientation. Each student will also be issued a locker in which to keep his/her music and instrument/s. Single reeds are available from the BookMark - double reeds are available from the Area Coordinator in the Music Department.

A typical registration for a student entering Gustavus as a non-music major but interested in continued growth as an instrumental musician consists of the following:

1. lessons on major instrument
2. one large ensemble
3. perhaps one small ensemble

Keyboard Auditions consist of prepared solo literature and sight reading as appropriate to assess the student's preparation and determine the appropriate registration for lessons. See below for more information on piano auditions.

Piano Study:

MUS246 (.500) Piano lessons (ARTS credit) - intended for those with the background for college-level private piano study. A minimum of 4-6 years of private study including the high school years is expected. The audition for piano study (MUS246) should consist of contrasting prepared pieces, including, if possible, one piece by Bach, one movement from a sonata or sonatina (Mozart, Beethoven), and one piece by a 19th century composer (Chopin, Debussy, MacDowell, e.g.). If this is not possible, students should perform contrasting selections indicative of their past study. In addition, they will be asked to play some sight-reading.

Double Performing Areas:

Students with more than one performing interest are encouraged to audition in each area (i.e., both in flute and piano, both cello and voice). It is possible to keep active in more than one area, although the student will probably have to prioritize between major and minor involvements in deciding between ensemble placements. For example, it is possible to sing in a choir (.250) and play in a concert band (.125), or play in a concert band (.250) and sing in a choir (.125), or play in both orchestra (.250) and a jazz ensemble (.125), etc. Students are generally advised to take no more than .400 ensemble credits during each of the first two semesters. Music faculty will be happy to help you sort through and understand your options.

First-year students may take only one lesson course (.500) each semester, though they may take Voice Class in addition to instrumental lessons. Multiple lessons are allowed beginning in the sophomore year. Exceptions to this recommendation are sometimes allowed for music majors with a double performing emphasis.

NURSING

Students are encouraged to express an interest in the nursing major upon application for admission to Gustavus Adolphus College. Enrollment in the program is limited and admission is competitive, therefore, early consultation with the department chair is recommended. Students will be advised by their First Term Seminar or Curriculum II professors. Students must apply for admission to the nursing major during the fall of the sophomore year. Application information is available from the department chair. Nursing courses begin in the fall of the junior year. See catalog for admission criteria.

The following prerequisite courses are to be completed during the first and second years of the program:

BIO101 Principles of Biology
HES234, 235 Human Anatomy and Physiology I and II
BIO118 Microbes and Human Health
CHE107 General Chemistry I
NUR239 Nutrition
PSY100 General Psychology
PSY234 Developmental Psychology
Sociology - 111 or 112 or 231 or 237
(A supporting course in Ethics must be completed before graduation.)

Students who wish to major in Nursing and complete Curriculum II will need to consult with CII program director and Nursing Department Chair to determine the student's schedule.

Effective Fall 2008

GUSTAVUS ADOLPHUS COLLEGE
 OPTIONS FOR PROGRAM PLANNING – NURSING

FIRST YEAR STUDENT	SOPHOMORE	JUNIOR	SENIOR
Semester I	Semester I	Semester I	Semester I
BIO 101 Principles PSY 100 General Psychology HES 234 Anatomy & Physiology	CHE 107 General Chemistry HES 234 Anatomy & Physiology S/A Sociology/Anthropology	NUR 302 NUR 304 NUR 306 NUR 308	NUR 386 NUR 388
January Term	January Term*		
Semester II	Semester II	Semester II	Semester II
BIO 118 Microbes & Human Health NUR 239 Nutrition PSY 234 Dev. Psychology S/A Sociology/Anthropology HES 235 Anatomy & Physiology	BIO 118 Microbes & Human Health NUR 239 Nutrition PSY 234 Dev. Psychology HES 235 Anatomy & Physiology	NUR 336 (2) NUR 338 .5 Summer internship (optional) between the junior and senior year	NUR 392 NUR 397 (W)

Prerequisite Courses for Nursing Major	Required Courses for Nursing Major (11)	Supporting Course
BIO 101 General Biology (1) BIO 118 Microbes & Human Health (1) CHE 107 General Chemistry HES 234 & 235 Anatomy & Physiology (2) NUR 239 Nutrition (1) PSY 100 General Psychology (1) PSY 234 Developmental Psychology (1) S/A Sociology/Anthropology (1) 111, 112, 231, or 237	NUR 302 Healthcare Issues (1) NUR 304 Nursing Concepts (1) NUR 306 Health Assessment (1) NUR 308 Adult Health (1) NUR 336 Adult Health II (2 course value) NUR 338 Child Health (1) NUR 386 Perinatal Health (1) NUR 388 Community Health (1) NUR 392 Mental Health (1) NUR 397 Nursing Leadership (1 – Writing course)	One Ethics Course Required: Suggested Options: Religion: Christian Social Ethics (233) Ethics and Medicine (243) Philosophy: Ethics of International Development (243) Ethical Theory (246) Applied Ethics (247) Philosophies of Environment (109)
*Beginning fall of 2005 only 2 J-T terms are required		

PHILOSOPHY

Courses at the 100 level are specifically designed for students who have had no previous training in philosophy. Students thinking of majoring or minoring in philosophy are encouraged to consult with a faculty member in the Department of Philosophy about whether it is appropriate to begin at the 100 or 200 level. The core courses for the major, such as Ancient Philosophy, Modern Philosophy, and Ethical Theory, are 200 level courses. They do not have prerequisites. However, whether it is appropriate for a student to begin at the 100 or 200 level depends on the particular student's academic background.

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall	Spring
PHI 100 level	PHI202 Mod. Philosophy
PHI201 Ancient Philosophy	Foreign Language
PHI246 Ethical Theory	Electives
Foreign Language	

PHYSICS

It is very important that students who intend to major in physics or are interested in pre-engineering should take Physics 200/201, Classical Physics I and a calculus course in the fall semester of their first year. Failure to do this will make it difficult to complete more than the minimal major in the remaining three years. Please note that an AP test in Physics will not usually substitute for Classical Physics I.

(See the Pre-Professional Interests section for information about engineering.)

It is possible to fulfill the minimum graduation requirements for a major in physics during the last three years if Calculus I and II have been completed in the first year. However, even with a doubling up of courses and some adjustments of prerequisites, it will not be possible for you to take the full sequence of courses that is recommended for graduate school in physics or engineering. Scheduling problems are much more likely to occur in your third and fourth years if you are behind in the sequence. In addition, the required experimental modern physics laboratory and senior theory courses presume a background gained in preceding courses.

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall	Spring
PHY200 Classical Physics I	PHY220 Class. Physics II
PHY201 Classical Physics Lab	PHY221 Class. Phys.IILab
MCS121 Calculus I	MCS122 Calculus II

The department offers the physics component of the pre-engineering and dual-degree programs leading to the B.S. in engineering from a university. Please refer to that section of the college catalog or this manual for further information.

POLITICAL SCIENCE

Students are encouraged to begin the major by taking one course from each of the three basic fields of study: U.S. Politics (POL110), international and comparative politics (POL130 or POL150), and political theory (POL160). These can be taken in any order. After completing these courses, students normally enroll in Analyzing Politics (POL200), which develops skills in political analysis and critical thinking within all areas of the discipline. POL200 will normally be taken in the sophomore year, after which students jump off into our advanced course offerings, choosing their programs of study in consultation with a departmental advisor.

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall
POL110 or 130 or 150
or 160

Spring
POL110 or 130 or 160
or other Social Science area

PSYCHOLOGY

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall
PSY100 General Psychology
(fall or spring)

Spring
Psychology

RELIGION

If a student desires to fulfill the THEOL (Religion) requirement, please be sure to choose only from those religion courses designated THEOL in the Course Section Schedule.

Students may count two of the following introductory courses towards a religion major or minor: The Bible (REL110), Studies in Religion (REL112), Religion in America (REL113) Introduction to Christian Thought (REL114), World Religions (REL115) and God Today (REL132). These introduce the student to basic issues in the study of religion. They may choose take more than two of the above introductory courses, but only two count towards the major or minor requirements. The Department also offers a course in Biblical Hebrew. Greek and Latin may be taken in the Classics Department. After completing introductory courses, students may choose from the four areas represented in the department, covering all four, and usually concentrating in one: Bible; Theological Studies; Religion, Culture and Society; and History of Religions.

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas. (Note: Curriculum II students will already take one or two courses that fulfill requirements for a religion major.)

Fall
 Religion 110 or 112
 Foreign Language (esp. Greek,
 Hebrew or Latin)
 English

Spring
 Religion 115
 Foreign language (esp.
 Greek, Hebrew or Latin)

This schedule is for illustration only. Religion is a flexible major and can be combined with study in a wide variety of fields, including English, foreign languages, women’s studies, music, the arts, pre-med, history, psychology, sociology, politics, economics, philosophy, and the sciences.

RUSSIAN LANGUAGE AND AREA STUDIES

This interdisciplinary major familiarizes students with language, literature, culture, civilization, history and economics of Russia and other eastern European nations. While the main emphasis of study is on Russia and the Russian language, students are required to take classes in a variety of disciplines pertaining to this rich and culturally diverse region. Students who have not previously studied Russian should begin their Russian language classes as soon as possible, preferably in the first semester of the first year. Study abroad experiences in Russia or eastern Europe are strongly encouraged.

SCANDINAVIAN STUDIES AND SWEDISH

The Department of Scandinavian Studies provides opportunities for students to gain mastery of Swedish language and learn about the Nordic countries' cultural contributions, their place in history and their varied roles in today's world, especially in the context of the European Union. Swedish is the only Nordic language taught on a regular basis.

In addition to offering Swedish language courses on elementary, intermediate and advanced levels, we offer courses in Nordic literature, Nordic history, and Nordic culture, with an emphasis on interdisciplinary studies. These area studies courses are taught in English and intended for both Scandinavian Studies majors and the general student.

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall
 SWE101
 *SWE201

Spring
 SWE102
 SWE202

*Students who have studied Swedish or another Nordic language before coming to Gustavus are urged to consult with a member of the Scandinavian Studies department before selection of language level is made. Students who have studied in Sweden for a year generally start with SWE201 (Intermediate Swedish). In exceptional cases, well-prepared students may even start with Advanced Swedish (SWE301).

SOCIOLOGY AND ANTHROPOLOGY

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall	Spring
S/A111 Cult. Anthro.	S/A111 Cultural Anthropology
or	or
S/A112 Prin. of Soc. or	S/A112 Principles of Soc or
S/A113 Social Problems	S/A113 Social Problems

THEATRE AND DANCE

Students interested in theatre are encouraged to register for one or more gateway theatre classes. You may take T/D 130: Foundations of Western Theatre, T/D 136: Creating Social Justice Theatre, and/or T/D 103: Beginning Experiments in Design. All of these courses will eventually be required for the major – but can also be taken other years. T/D 106, Beginning Acting, will be offered in the Spring. If you plan to major in theatre, let the department know and you will be added to a priority waiting list for that popular class. Students with significant previous experience in Costumes, Scenery, Lighting or Sound may also register for a 200-level craft and design class.

Auditions for the Fall semester productions happen the very first week of class, so interested students should plan to have a prepared audition piece ready to go. First-year students really do have a shot at being cast in a faculty-directed show and are welcomed at the auditions. First-years are also welcome in technical positions. Working backstage on a show is a great way to get involved the department.

Students interested in dance, should plan to take a technique class during their first semester at Gustavus. T/D 105, Beginning Modern Dance is the gateway course for the dance major. It is geared toward the student with previous training in dance, such as ballet or jazz, who has not had the opportunity to study modern dance technique. Students with previous dance training may also consider registering for T/D 134, Beginning Ballet II which is geared toward the student with 1 – 3 years previous experience in ballet, or T/D234, Intermediate ballet, which is geared toward the student with more than three years previous training. T/D 102: Fundamental Modern Dance, T/D 105: Beginning Modern Dance, T/D 104: Beginning Ballet and T/D 109: Beginning Jazz Dance are for the student with little or no previous dance training. Students with previous training may register for intermediate level dance classes with the permission of the instructor.

Auditions for the student dance companies, the Gustavus Dance Company and the Apprentice Company, are held immediately following the information session on theatre and dance during First Year Orientation week. Plan to attend the Theatre/Dance meeting in Anderson, and then shift to the Kresge Dance Studio for the audition.

Practicum courses and Creative Inquiry classes have limited enrollments and are designed to work with specific projects. Students **MUST** have the permission of the instructor prior to

registering for any practicum courses. Students cast in faculty-directed plays may receive course credit for their commitment, and will be expected to register for the appropriate practicum.

Possible First Year Program for potential Theatre majors:

FALL (choose one or more)

T/D 130 Foundations of Western Theatre History

(Required for major/open to all. HIPHI. Offered Fall semester even years only)

T/D 136 Creating Social Justice Theatre

(Required for major/open to all. ARTS. Offered every Fall)

T/D 103 Beginning Experiments in Design

(Required by the major/open to all. ARTS. Offered every Fall)

T/D 225 Costume: Craft and Design

(Option to fulfill a major requirement/open to all. ARTS. Offered Fall semester even years only)

In addition to courses listed above, choose one or two courses from general education areas or choose electives.

JANUARY

Audition in the Fall to perform in the J-term intensive production or sign up for technical and design work for credit during J-term

SPRING (choose one or more)

T/D 106 Beginning Acting

(Required for the major/open to all. ARTS. Offered every Spring.)

Get on waiting list early

T/D 223 Lighting and Sound: Craft and Design

(Option to fulfill a major requirement/open to all. ARTS. Offered Spring semester even years only)

T/D 229 Scenery: Craft and Design

(Option to fulfill a major requirement/open to all. ARTS. Offered Spring semester odd years only)

T/D 241 Theatrical Media and Design Technology

(Option to fulfill a major requirement/open to all. Offered Spring semester odd years only)

Possible First-year Program for Dance majors:

FALL

T/D 105 Beginning Modern Dance

SPRING

T/D 235 Intermediate Modern Dance

In addition to courses listed above, choose one or two courses from general education areas or choose electives.

PRE-PROFESSIONAL INTERESTS

If you are considering a pre-professional career, a good place to begin your research is in the Career Center and web sites. There are a number of resources that describe occupations and the education involved, as well as directories of graduate, law, medical, MBA, architectural and dental programs.

Since requirements for professional schools vary from school to school and can change year by year, you must carefully examine the catalog of the schools you are interested in to be current and accurate registering for courses at Gustavus. Recommended courses include prerequisite courses needed at Gustavus to take the courses required by the professional schools.

For the names of pre-professional advisors for these programs, contact the Advising Center (x7027) or Career Center (7586).

If you are in Curriculum II, see your Curriculum II advisor about fulfilling major, pre-professional prerequisites, and general education requirements.

The following listing is incomplete. More pre-professional interests can be found in the college catalog.

DENTISTRY

Schools of dentistry generally require a minimum of three years of pre-dental study in the arts and sciences. The normal sequence is to complete four years at Gustavus before entering dental school. Requirements vary with the schools and pre-dental students are advised to study the catalogs of the dental schools of their choice. Some required courses are listed below:

Sample Curriculum: See Curriculum II advisor for possible schedules.			
First Year	Fall:	CHE107 BIO101 FTS100 Elective	Spring: CHE141 BIO102 PSY100 MCS118+119 or 121 or 177 or statistics
Second Year	Fall:	CHE251 ENG BIO201 (rec.)	Spring: CHE258 Electives
Third Year	Fall:	PHY120/121 or 122/121 ART110 or 234 HES234 (rec.)	Spring: PHY170/171 or 172/171 HES235 (rec.)
Fourth Year	Fall:	CHE255	

Undergraduates preparing for dental school are encouraged to complete at least three years of liberal arts studies before applying for admission to dental school. Undergraduate courses in biology, chemistry, and physics are required for admission to dental schools, but satisfactory completion of non-science courses is also expected. Some required courses are listed below. **Elective or recommended courses do not strengthen your initial application. Consider them only if you are very committed and are certain of doing well.**

English - two semesters (Composition and Literature)

Biology - two semesters (BIO101 and BIO102 are required; BIO201 is recommended).

Physics - two semesters (PHY120/121, PHY170/171)

Chemistry - five semesters (CHE107, CHE141, CHE251, CHE255 (required at the U of MN) and CHE258 are required.

Mathematics - one semester (MCS118/119 or 121 or 142 or 177)

Psychology - one semester (PSY100)

Most dental schools highly recommend courses in drawing and sculpture, since prospective dentists must demonstrate suitable manual dexterity as part of their Dental Admission Test.

ENGINEERING

The baccalaureate and graduate degrees in engineering or applied science may be earned through several combinations of course and degree work at Gustavus and at schools of engineering. Professional registration in engineering usually requires a B.S. degree in engineering. However, the combination of the B.A. in physics with the M.S. and/or Ph.D. in engineering is one often exercised by Gustavus graduates preparing for work in industrial research and development.

Gustavus offers dual-degree programs in engineering with two universities. They are the Institute of Technology at the University of Minnesota, and Minnesota State University - Mankato. Dual-degree programs offer joint studies leading to a B.A. degree from Gustavus and an engineering baccalaureate degree from the associated university. This program may be completed either in five years by finishing Gustavus general education and major requirements in three years, or in six years if the student elects to remain at Gustavus for the senior year. Most current university programs in engineering require more than four years of undergraduate study.

Students planning to transfer to an engineering program at a university after two or three years without completing the Gustavus degree should follow the pre-engineering curriculum recommended below. The College has established transfer equivalencies for courses in this curriculum with a number of universities. Students should acquaint themselves with the specific entrance requirements of the engineering school to which they are planning to transfer.

Students wishing to pursue graduate studies in engineering without earning a baccalaureate degree in engineering should complete the Gustavus degree with a strong major in physics or, for chemical engineering, chemistry. Both of these preparations should include some undergraduate research experience and require very strong academic records.

Students admitted to these two university engineering schools are considered for the full range of financial aid packages for which they are eligible. These may include in-state tuition, scholarships, and other aid, depending on the particular university. Gustavus graduates moving directly into graduate studies in engineering normally receive substantial tuition waivers, and graduate research assistantships or national fellowships, such as those awarded by the National Science Foundation.

Recommended courses for first year pre-engineering (excluding chemical engineering) are MCS121 and MCS122, PHY200/201 and PHY220/221. Recommended second year courses are PHY230, PHY240/241, PHY260, PHY270/271, MCS221. Many programs require one or two semesters of chemistry, CHE107 and either CHE141 or CHE258 (which has prerequisites listed in the catalog) and all require that students be proficient in at least one high-level programming language, either FORTRAN or C++. It is important to begin the physics, calculus or chemistry course sequence in the fall semester. If students don't begin the sequence in the first fall semester, they must wait for the second year fall semester for PHY200/201 or CHE107.

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas according to your choice of Curriculum I or II, or choose electives.

Fall	Spring
PHY200 Classical Physics I	PHY220 Classical Physics II
PHY201 Classical Physics Lab	PHY221 Classical II Lab
MCS121 Calculus I	MCS122 Calculus II

Chemistry is the expected academic major for pre-chemical engineers. Students preparing for chemical engineering should follow the same physics, mathematics and computer science course sequence as for pre-engineers in the other areas. In particular, Classical Physics I, II, and III must be taken, not General Physics I and II. First-year students will normally enroll in CHE107 and the calculus course appropriate for their level of preparation.

LAW

All accredited American law schools require a four-year college degree or its equivalent. The American Bar Association and the National Association of Pre-Law Advisors suggest that students take courses that improve the following skills: analytical and problem solving, critical reading, writing, oral communication and listening, and general research. A choice of a particular major, especially at a liberal arts school, is far less significant than making wise course choices that foster these skills. Doing very well in one's chosen major is critical, for grade point average is a key component of the admission criteria for law schools.

Students interested in learning more about how to prepare for law school should contact Professor Terry Morrow (Communication Studies) during their first year at Gustavus. Another valuable resource is the Pre-Law Program homepage, which can be found at <http://oncampus.gustavus.edu/oncampus/academics/pre-law/pre-law.cfm>. It provides helpful information on pre-law events, contact information, the Law School Admissions Test (LSAT), financial aid, and other essential matters.

MEDICINE

Students should choose a major field consonant with their talents and inclinations. Medical schools look for the broadly-educated person, one who has chosen and achieved equally well in humanities, social studies, and sciences. While any academic major may be pursued, there are some uniform, required natural and social science courses.

Medical school entrance requirements vary somewhat. Interested students are encouraged to consult a publication of the Association of American Medical Colleges titled Medical School Admission Requirements at the earliest possible opportunity to plan for the entrance requirements of a specific medical school. Copies are in the Advising Center, Career Center, Biology Department and on reserve in the library.

In general, medical school plans should be formulated around the state-funded institution for the state of residence. (For example, the University of Wisconsin-Madison for Wisconsin, and the University of Iowa for Iowa.) Their requirements should be considered minimum courses of study and should be augmented with courses that are recommended by medical schools the student is considering.

A pre-medical student has considerable freedom in academic planning. Courses fulfilling many of the general education requirements of Gustavus will also satisfy some of the primary requirements of medical schools. Most of the medical schools require:

- 1) One year of college biology - This is often a two-semester sequence of General Biology, but additional coursework such as Cell and Molecular Biology, Genetics, or Microbiology may be helpful.
- 2) One year of general or inorganic chemistry - Because Gustavus does not offer a year-long course in General Chemistry, we recommend that students start in Chemistry 107 and then complete Chemistry 258 (Inorganic Chemistry) at a later time.
- 3) One year of organic chemistry with lab - Students at Gustavus typically enroll in Chemistry 141 (Organic I) following completion of Chemistry 107. The following fall semester they take Chemistry 251 (Organic II).
- 4) One year of college physics - This does not have to be calculus-based physics.
- 5) One year of college English - Literature based courses in other disciplines may be substituted with permission of the individual medical school.
- 6) One semester of mathematics - Calculus is often required, although several schools such as the University of Minnesota and UMD allow substitution of an upper level statistics course in place of calculus. A few schools require a full year of mathematics.
- 7) One course in biochemistry - Although this is just a recommended course for many of the medical schools, increasingly more of the programs are beginning to require this class. For instance, Mayo Medical School, the University of Minnesota and UMD are currently stating that biochemistry is a required course for admission to their program.

- 8) Additional coursework - One course in psychology (PSY100). Most schools require that additional coursework be completed in the behavioral sciences, social sciences, and humanities. Generally, students at Gustavus meet these requirements by completing their Curriculum I or Curriculum II requirements. Note exceptions like UMD which requires one upper level course in both humanities and behavioral science.

The sequence of courses is unimportant, except that chemistry should be taken as early as possible, preferably in the first semester along with BIO101 (Principles of Biology). The recommended minimum science courses should be completed by the spring of the junior year, in order to prepare for the Medical College Admission Test if the student intends to enter medical school in the fall following graduation. Many students work in the scientific and healthcare settings for several years prior to entering medical school.

Consult with the pre-med advisor about the best way to begin the course of study and when to take the MCAT, keeping in mind the need for a strong beginning and the importance of the grade point average.

Sample Curriculum (for Curriculum I): See health professions coordinator about Curriculum II schedule.			
First Year	Fall:	CHE107 BIO101 FTS100 Elective	Spring: CHE141 BIO102 English or other Elective
Second Year	Fall:	CHE251 BIO201 Elective Elective	Spring: CHE258 PSY100 MCS118/119 or 121 Elective
Third Year	Fall:	PHY120/121 possibly 2nd math course CHE255 Elective	Spring: PHY170/171 MCS142 Elective

OCCUPATIONAL THERAPY

Several options for courses of study are available for students interested in occupational therapy. Gustavus is affiliated with Washington University, St. Louis, Missouri, in a program of joint studies leading to a bachelor of arts degree from Gustavus and a master of science degree in occupational therapy from Washington University. When a student has completed at least five semesters of transferable course work with a grade point average of at least 3.0 and has the recommendation of the College faculty advisor, application is made to the Office of Admissions at Washington University.

Gustavus has an agreement with the College of St. Catherine regarding their Master of Occupational Therapy Program whereby two Gustavus students who meet admission criteria will be given preferential admission status.

In addition to completion of a successful major course of study at Gustavus and fulfillment of the core and writing requirements at Gustavus, the following courses are required for admission to the Washington University program. Please Note: Prerequisites vary from school to school. These prerequisites follow the Washington University program and are listed to show you what a representative program looks like. You need to write to other schools you might be interested in for their specific prerequisites. The most current information regarding various programs is available on the Internet at <http://www.aota.org/>

This is only a suggested order to follow. Your plan will depend on your major, your confidence as a scientist, and your high school preparation. While remembering the sequence in which science courses are offered, realize that they could be spaced differently from what this sample schedule shows.

Prerequisites for Occupational Therapy Graduate Study at Washington University:

ART – one studio class
 HES234 and HES235
 PSY100, 134, 241, 334
 Philosophy (ethics or contemporary issues in health and society)
 HES214 (rec)
 Statistics-MS140 or 142 or PSY224 if a PSY major. E/M stats not acceptable.

A January Term Career Exploration or semester internship is also strongly recommended.

Sample Curriculum: See your Curriculum II advisor for possible schedules.

First Year	Fall: FTS100 S/A111,112 or 113 PSY100	Spring: PSY234 or 241 or next year
Second Year	Fall: HES234 PSY234 (stats see above)	Spring: HES235 PSY241 Electives
Third Year	Fall: ART110 or 234	Spring: HES214 (rec.) PSY334

Students planning to apply for admission to any program in occupational therapy may select any major.

Other programs in occupational therapy are also available. Almost 30 institutions admit students who have completed four years of college into an entry-level master's degree program in occupational therapy.

Most schools require applicants to complete their undergraduate degree prior to admission.

A typical GPA requirement for consideration is 3.0 overall and in prerequisite coursework.

*Remember: all graduate programs have different admission criteria. Be sure to check with the schools to which you are interested in applying to see what their specific prerequisites are.

Feel free to make inquiries by contacting:

American Occupational Therapy Association
4720 Montgomery Lane
P.O. Box 31220
Bethesda, MD 20824-1220
<http://www.aota.org> 301-652-2682

PHARMACY

Many pharmacy programs allow undergraduate students to transfer in after completing required courses.

A student may transfer at any time to the pharmacy program at the university of his/her choice. Many students decide to complete several years of study or even graduate from Gustavus before transferring to a university pharmacy program. The student should be aware that the professional program will probably require an additional three years of study after transferring from Gustavus.

The following pre-pharmacy courses are required:

- Biology (BIO101, BIO102, BIO118)
- Chemistry (CHE107, CHE141, CHE251)
- Economics (E/M102)
- English (two writing courses)
- HES234, 235
- Mathematics (MCS118/119 or 121; 142 rec)
- Physics (PHY120/121 or PHY121/122, and PHY170/171 or PHY170/172- depending on math level))
- 2 elective courses in literature and artistic expression
- Communication Studies (COM120)
- PSY100, 234, 241 or 334

Sample Curriculum: See your Curriculum II advisor for possible schedules.

First Year	Fall:	CHE107 BIO101 FTS100 Elective	Spring:	CHE141 BIO102 ENG
Second Year	Fall:	CHE251 MCS118/119 or 121 PSY100 HES234	Spring:	BIO118 HES235 CHE258 MCS142

Third Year	Fall: PHY120/121 or PHY122/121 E/M101 or 102 PSY 200 level	Spring: PHY170/171 or 172/171 COM120 BIO 380 if not 118 (need pre-reqs BIO201 and 202)
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Completion of 20-25 courses including those listed above with a grade-point average of 3.2 or better will prepare you for further study in pharmacy and specialization as a retail, industrial, or clinical pharmacist, for example. Pharmacy is an excellent choice for a career and there are many opportunities within the field. For further information, write or call the College of Pharmacy (612/624-9490) at the University of Minnesota.

PHYSICAL THERAPY

A program in pre-professional advising for physical therapy, including opportunities for career exploration, is available for students at Gustavus. You should carefully examine program prerequisites beginning in your sophomore year to make sure that you continue to take the necessary courses.

Gustavus has an agreement with the College of St. Catherine regarding their Master of Physical Therapy Program whereby two Gustavus students who meet the admission criteria will be given preferential admission status.

Each professional program in physical therapy has its own list of prerequisite courses. The most current information regarding various programs is available on the Internet at <http://www.apta.org/>. Your major at Gustavus may be from any department, but typical majors are biology, psychology, or athletic training.

This list includes most prerequisite courses that you are expected to have completed before admission to a professional program in physical therapy. This represents the requirements at the University of Minnesota.

Sample Curriculum: See your Curriculum II advisor for possible schedules.		
First Year	Fall: BIO101 S/A111,112 or 113 FTS100 Elective	Spring: BI0102 MCS118/119 or 121 PSY100 Elective
Second Year	Fall: PSY241 Stats (MCS or PSY) HES234 CHE107	Spring: CHE141 Elective HES235 BIO118 or BIO380 (need BIO201-202 as prereq.)
Third Year	Fall: PHY120/121 or PHY122/121 HES214 (rec.) Electives	Spring: PHY170/171 or PHY172/171 Electives

Prerequisites for many professional programs in physical therapy include:

BIO101, BIO102, BIO118 or if BIO389, the pre-requisites of 201 and 202.
HES234, HES235
CHE107 and CHE141
HES214 (rec.)
MCS118+119 or 121 and statistics (MCS140 or 142 or PSY224 if a PSY major)
PHY120/121 or PHY122.121 and PHY170/171 or PHY172/171
PSY100, PSY241

A January Term Career Exploration or semester internship is also strongly encouraged.

Most schools require applicants to complete their undergraduate degree prior to admission.

A typical GPA requirement for consideration is 3.0 overall and in prerequisite coursework.

*Remember: all graduate programs have different admission criteria. Be sure to check with the schools to which you are interested in applying to see what their specific prerequisites are.

Inquiries for more information, please address to:

American Physical Therapy Association

1111 N. Fairfax St.

Alexandria, VA 22314-1488

703-684-2782

<http://www.apta.org>

VETERINARY MEDICINE

Admission requirements vary with schools, but most include the courses required by the University of Minnesota. Listed here are the Gustavus courses needed to meet those requirements: BIO101, BIO102, BIO201, BIO202, either BIO241 or BIO242, BIO374 and BIO380; CHE107, CHE141, CHE251, CHE255, CHE258; MCS118+119 or MCS121 or MCS122; PHY120/121, PHY170/171 or PHY200/201 and PHY220/221; English composition (met by completion of the Gustavus writing requirement); three courses from the social sciences, arts or humanities. Recommended electives include electronic communication, statistics, macroeconomics, public discourse, and business management.

Most openings in schools of veterinary medicine are reserved for residents of the state in which the school is located. The undergraduate requirements, however, may be completed at any accredited undergraduate college.

The following sample curriculum is only a suggested plan. You should decide in consultation with the pre-veterinary advisor at what pace you should take these science sequences in order to do your best work.

Sample Curriculum: See your Curriculum II advisor for possible schedules.

First Year	Fall: CHE107 BIO101 FTS100 Elective	Spring: CHE141 BIO102 MCS118+119 or MCS121 Elective
Second Year	Fall: BIO201 CHE251 E/M101 (rec.) Elective	Spring: BIO202 CHE258 PSY100 Elective
Third Year	Fall: BIO374 PHY120/121 or PHY200/201 Elective Elective	Spring: BIO242 or 241 next fall PHY170/171 or PHY220/221 COM120(rec) Elective
Fourth Year	Fall: CHE255	Spring: BIO380