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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 Three Crowns Curriculum) 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 should be your 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 and molecular biology,**

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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum 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 Liberal Arts Perspective, and a listing of courses for Curriculum II 3 Crowns Curriculum, go to <http://www.gustavus.edu>, click on Academics, General Catalog, and note graduation requirements.

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.

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 liberal arts 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). You will choose either Curriculum I Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum.

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, which is comprised of at least 31 semester courses, 2 January Interim Experiences, .5 Fitness and .5 Activity credits. You have access to this online on WebAdvisor 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 Liberal Arts Perspective - 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 Three Crowns Curriculum - your advisor will be one of your professors from either of your first two 3 Crowns Curriculum 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, Health Fitness or Nursing, you will apply for admission to those programs by your sophomore year. An advisor will be assigned to you at that time. The exception is Nursing. You can arrange for an advisor from Nursing before you know if you are in the program, as early as after your first semester.

Faculty advisors and Career Development 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 Liberal Arts Perspective 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 LIBERAL ARTS PERSPECTIVE AND CURRICULUM II 3 CROWNS 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, that your learning has both breadth and depth, that you begin to see the relationship among your courses, that 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 required 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 Liberal Arts Perspective** you select 9 courses from an approved list, which represent various academic areas (i.e., "The Arts," "Historical and Philosophical Studies," "Social Sciences," 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. The **Liberal Arts Perspective** is a **distributional** liberal arts program.

All **Three Crowns Curriculum** students take, in a cohort, a sequence of nine integrated and cross-disciplinary courses. A theme of "the individual and the community" runs throughout the entire program, as it examines the artistic, literary, religious, philosophical and scientific heritage of the Western tradition within a global perspective

Cultural events, weekend retreats and special seminars for Three Crowns Curriculum 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. **Three Crowns Curriculum**, with its emphasis on connections among areas of learning, is known as an **integrated liberal arts** program.

The Three Crowns Curriculum is an enriched program with many out-of-class opportunities for learning.

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 the 3 Crowns Curriculum is limited to 60 first-year students per year. If you have not already notified the Admission Office of your intention to be in the 3 Crowns Curriculum, please e-mail cii@gustavus.edu or contact the director, Lori Carsen Kelly at lcarsenk@gustavus.edu.

THE LIBERAL ARTS PERSPECTIVE AND THREE CROWNS CURRICULUM - REQUIREMENTS AND DESCRIPTIONS

REQUIREMENTS FOR GRADUATION

1. 34 courses are needed for graduation, 31 of which must be semester courses, 2 of which are January Interim Experience courses, .5 of physical education fitness (FIT), and .5 of physical education activities (ACT).
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 Three Crowns Curriculum.

CURRICULUM I Liberal Arts Perspective (Distributive Curriculum)

These 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.

2. **Completion of a non-English language requirement:** Curriculum I Liberal Arts Perspective 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 Liberal Arts Perspective 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.

Curriculum I Liberal Arts Perspective Area Requirements

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 substantially 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

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

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, NUR, 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

THE THREE CROWNS CURRICULUM: CONNECTIONS, IDEAS, VALUES

The Three Crowns Curriculum is a unique way to fulfill general education liberal arts requirements. It is a core curriculum in which integrated courses build upon each other to create a common body of knowledge. A theme of “the individual and community” is seen throughout the program as it examines the artistic, literary, religious, philosophical, and scientific heritage of the Western tradition within a global perspective. Students are challenged to address ethical values questions both in class and in Three Crowns-sponsored cultural, social, and intellectual activities. The courses listed below are open to Three Crowns Curriculum students only. The program is available to any entering first-year student, subject only to a limitation of 60 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 classes 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

CUR-220, 230, or 240 Fine Arts course (sometimes offered in January and spring)

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 (201 for most languages, 103 for Spanish)
2. One quantitative reasoning course, ie. MCS121 Calculus I, MCS115 The Nature of Math, MCS140 Statistics, or PHI236 Formal Logic.
3. HES-100 .500 credit of Personal Fitness and .500 credit of physical education activities.

The Three Crowns Curriculum recognizes that flexibility in scheduling is sometimes necessary; in cases of serious academic conflicts, students may petition to use appropriate substitutions, including courses taken abroad, to fulfill Three Crowns requirements. See the Director for further details.

THREE CROWNS CURRICULUM COURSES

CUR-100 Historical Perspective I (1 course) This course studies many of the people, ideas, and events that are regarded as the most influential in Western history. It provides a survey of civilizations from Asia, Greece, and Italy to the European Renaissance, and takes a comparative look at Europe with other cultures in history, especially china. 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. **WRIT1**.

CUR-110 Historical Perspective II (1 course) This course picks up where Historical Perspectives II leaves off in an overview of global history. It explores the overarching themes of interconnectedness and the interdependence of the world, from approximately 1500 until the present. The course examines points of convergence as well as divergence between cultures as we address the major themes of the Enlightenment, globalization, empire, significant ideologies- imperialism, fascism, communism, racism, capitalism, liberalism, etc.-as well as the relationship between society and the individual. The course also seeks to develop an awareness of the "history of history," and 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 be used in comparative analysis. 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 Jewish and Christian traditions to the development of world culture, with some attention to Islamic traditions. The course will also examine biblical perspectives on certain themes, such as human nature, evil and suffering, ethical reasoning, ideals of community, the course of history, and humanity's relationship to the natural world, and consider how these themes have been explored In later literature, art, and other types of cultural expression.

CUR-210 The Individual and Society (1 course) This course explores the relationship between individuals and their communities. It examines Individual agency, behavior, and participation within social relationships, interactions, and institutions, including contemporary democracies. This course will challenge students to consider how we make decisions concerning

the "self" and "others" within a variety of personal, communal, and cultural settings. The basic assumptions, 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 listen to music, attend musical productions, and participate 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, 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 settings. The students' aesthetic experience will be enhanced through viewing artistic exhibits both on and off campus throughout 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. Students will gain a critical understanding of drama or dance through the study of significant texts and historical contexts, and an appreciation of the processes of theatrical art through the study of the physical and imaginative nature of performance. The relationship of the individual and the community is approached from the viewpoint of one or more artists: the playwright, the designer, the actor, the director, the choreographer, and the dancer. Comparisons will also be 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. **WRITD**

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 and 21st centuries. The course will point out the changing view of nature as represented by introducing working models and theories of science in their historical context. We will explore the relationship between the drive for unity and the perception of diversity in science will be explored. Students will participate in one laboratory per week.

CUR-291, 391 Independent Study (Course value to be determined.) Opportunities exist in the Three Crowns Curriculum for students to develop independent projects under the supervision of a Three Crowns professor.

CUR-268, 368 Career Exploration, Internship This internship is designed to place students in situations where their three Crowns integrated liberal arts studies are highly valued. Prerequisites:

At least three semesters of Three Crowns Curriculum courses.

CUR-399 Senior Seminar (1 course) As a capstone course for the Three Crowns Curriculum, this seminar calls upon students to contemplate questions concerning values in the context of the relationship between the individual and the community. Through vigorous discussion of books and articles that raise issues concerning values in contemporary life from diverse cultural perspectives, students will reflect upon their own moral and intellectual autobiographies. The course's main product is a major paper in which students account for their own values from both theoretical and personal perspectives. **WRITI.**

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 EQUIVALENCY EXAM

Determine whether or not to take the online French, German or Spanish language PLACEMENT exam at home or the EQUIVALENCY exam on campus during the fall semester.

*****WHO TAKES WHICH EXAM - PLAIN AND SIMPLE*****

Take the placement exam ONLY if you intend to continue with your language study here. This exam will NOT give you credit or prove your fulfillment of the graduation requirement. It ONLY PLACES you in the next course you should take here.

Take the equivalency exam ONLY if you intend to prove your ability at a level that fulfills the graduation requirement. It will not give you credit toward the total number of courses you need to graduate, but it will show if you have fulfilled the non-English language graduation requirement.

Don't take either exam if you are beginning a new language.

(Refer to following pages for information about languages other than French, German or Spanish.)

THE NON-ENGLISH LANGUAGE GRADUATION REQUIREMENT

- *Curriculum I Liberal Arts Perspective– first two courses or demonstrated equivalency
- *Curriculum II Three Crowns Curriculum – first three courses or demonstrated equivalency
- *Eligibility for Phi Beta Kappa – first four courses or demonstrated equivalency

YOU SHOULD TAKE THE ONLINE PLACEMENT EXAM AT HOME:

- *If you are planning to major or minor in French or Spanish starting this fall and have not completed post-secondary options (college) coursework in the language;
- *If you are planning to continue your study of French, German or Spanish this fall and have not completed post-secondary options (college) coursework in the language.

If you wish to continue the study of a non-English language at Gustavus, it is strongly recommended you do so as soon as possible. You can take the placement exam **only once** so take it **before** the semester you intend on continuing your study. Do **not** take it now if you plan to take the language some time after this fall.

You must take the placement exam at least one week before meeting with an advisor for registration, if you are planning to register for French, German or Spanish this fall. Instructions for accessing and taking the Placement Exam online for French, German or Spanish are available at the Modern Languages, Literatures and Cultures departmental website: <https://gustavus.edu/mlc>.

YOU SHOULD NOT TAKE THE PLACEMENT EXAM:

- *If you are planning to fulfill the graduation requirement with a language other than French, German or Spanish;
- *If you want to take French, German or Spanish later, not this fall;
- *If you want to begin a new language;
- *If you scored 4 or above on an Advanced Placement foreign language exam;
- *If you are transferring in college credit;
- *If you are planning to demonstrate equivalency with the equivalency exam on campus and do not intend to continue studying the language.

YOU SHOULD TAKE THE EQUIVALENCY EXAM ON CAMPUS THIS FALL:

- *If you think you can demonstrate equivalency to fulfill the graduation requirement and do not plan to study French, German or Spanish;

You should take the equivalency exam on campus during your first semester. For dates and instructions, go to <https://gustavus.edu/mlc>.

YOU SHOULD NOT TAKE THE EQUIVALENCY EXAM

*If you are completing your language requirement through courses at Gustavus.

If you have any questions regarding placement or equivalency exams, please contact Dr. Ana Adams (aadams3@gustavus.edu) for Spanish and German or Professor Laurent Dechery (dechery@gustavus.edu) for French.

Additional information can be found online at the Department of Modern Languages, Literatures and Cultures <https://gustavus.edu/mlc/>.

OTHER LANGUAGES

If you have had previous experience in the following languages, you can confirm your placement in the fall by contacting the listed faculty member.

Chinese	Dr. Shannon Cannella (scannell@gustavus.edu)
Greek	Dr. Matt Panciera (mpancier@gustavus.edu)
Italian	Dr. Angelique Dwyer (adwyer@gustavus.edu)
Japanese	Dr. Toshiyuki Sakuragi (sakuragi@gustavus.edu)
Latin	Dr. Matt Panciera (mpancier@gustavus.edu)
Russian	Dr. Denis Crnkovic (cronk@gustavus.edu)
Sanskrit	Dr. John Cha (jcha@gustavus.edu)
Swedish	Dr. Kjerstin Moody (kmoody@gustavus.edu)

If you have had previous experience in ASL, please contact the Registrar's Office.

Guidelines for provisional registration:

1 year of high school – 101

2 years of high school – 102

3 years of high school – SPA103 and 201 for other languages

4 years of high school – SPA200 or 202 for other languages

If you qualify for 102 or 202, you might have to wait until spring semester when they are offered.

To demonstrate equivalency in a language which Gustavus does not teach, please visit the following link for further information – <https://gustavus.edu/mlc/languagecoursereq.php>.

CALCULUS PLACEMENT EXAM

DETERMINE WHETHER OR NOT YOU NEED TO TAKE THE ONLINE CALCULUS PLACEMENT EXAM. NOT EVERYBODY NEEDS TO TAKE THIS EXAM.

This exam only places students in the correct course in the calculus sequence and does not give credit for a MATHL general education requirement for Curriculum I Liberal Arts Perspective or the quantitative reasoning requirement for Curriculum II Three Crowns Curriculum. **This test is only for students who are interested in studying calculus or majoring in one of the sciences, Math or Computer Science, or Management, Economics or Accounting.** Moreover, if you are better served by one of the non-calculus courses in Mathematics, Computer Science, statistics, or logic, then this test would be irrelevant for you.

You do not need to take this test if you are transferring in a calculus credit from Post-Secondary Enrollment 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.

THIS TEST WILL NOT BE GIVEN ON CAMPUS

Instructions for Accessing and Taking a Calculus Placement Test

- **PLEASE TAKE THIS EXAM AT LEAST ONE WEEK IN ADVANCE OF SPEAKING WITH AN ADVISOR TO REGISTER WHETHER BY PHONE OR ON CAMPUS.**
- **NO TESTS WILL BE GIVEN ON CAMPUS JUNE 18-20.**

We assume that you can take the placement test on the Web, if not at home then at a library or other location. 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 one-half 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 calculus placement test at the following web site:
<http://place35.placementtester.com:8080/gustavus/login/login.do>

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 two things, by selecting the appropriate links on the site:

1. **Register** for the site by doing the following:
 - a. Select Register at the bottom of the gray box on the left hand side of the window.
 - b. Fill out the information requested. Use your name and your student ID number. (Your home phone number will also work.)
 - c. Once you have created an account, you will be taken to the login page. Log in using the account information you just created.
 - d. Click on Find Courses Open for Registration. You will only have to do this the first time you log on to this site.
 - e. Choose Calculus Placement by checking the box to the left (this will be your only choice).
 - f. Click on Register and then Confirm on the following page.
 - g. You now have access to our three Calculus Placement exams. To access the tests, click on Calculus Placement.
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 Calc w/ Pre-calc Review 1a.”

3. When you are done, you must use the “**Grade**” button to submit your results. Your placement will be given to you on the next screen. Please make a record of this information. **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, your answers are final and 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)

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)
Forms

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 the Reading in Common book 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 to the "One Stop Shop".
10. 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 and molecular biology, 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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, 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 and molecular biology 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.)

Ideally, students interested in the biochemistry and molecular biology major should register for both BIO101 and CHE107 if they meet the first profile in the Biology section; suggestions for those meeting the second profile area are also given (see below).

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 is not enough 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 and molecular biology 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 Liberal Arts Perspective), 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 – Introduction to 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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall
 BIO101 Principles
 CHE107 General Chemistry

Spring
 BIO102 Organismal
 CHE141 Organic Chemistry

*Sample schedule of classes for a biology major
 who also takes the two required chemistry courses in the first year*

Fall Semester

Spring Semester

First Year

BIO 101 Principles of Biology
 CHE 107 Principles of Chemistry
 FTS 101
 Elective

BIO 102 Organismal Biology
 CHE 141 Organic Chemistry I
 Elective
 Elective

Sophomore Year

BIO 201 Cell and Molecular Biology
 Elective
 Elective
 Elective

BIO 202 Evolution, Ecology, and Behavior
 Elective
 Elective
 MCS 121 Calculus I *or*
 MCS 140 Elementary Statistics

Junior Year

Upper-level BIO course*
Elective
Elective
Elective

BIO 241 Invertebrate Zoology
BIO 245 Conservation Biology
BIO 372 Animal Behavior
BIO 374 Genetics
BIO 376 Entomology
BIO 378 Plant Physiology
BIO 381 Immunology
BIO 383 Aquatic Biology
BIO 384 Neurobiology
CHE 255 Biochemistry
GEO 241 Paleontology

Upper-level BIO course*
Elective
Elective
Elective

BIO 242 Vertebrate Zoology
BIO 370 Ecology
BIO 373 Cell Biology
BIO 380 Microbiology
BIO 383 Developmental Biology
BIO 377 Plant Systematics
BIO 385 Evolution
BIO 386 Comparative Physiology
BIO 388 Molecular Genetics
CHE 255 Biochemistry
PSY 260 Introduction to Neuroscience

Senior Year

Upper-level BIO course*
Elective
Elective
Elective

Upper-level BIO course*
Elective
Elective
Elective

*At least 3 courses at the 300-level are required for the biology major

*Sample schedule of classes for a biology major
who does not take the two required chemistry courses in the first year*

Fall Semester

Spring Semester

First Year

BIO 101 Principles of Biology
Elective
Elective
Elective

BIO 102 Organismal Biology
Elective
Elective
Elective

Sophomore Year

CHE 107 Principles of Chemistry
MCS 121 Calculus I *or*
MCS 140 Elementary Statistics
Elective
Elective

CHE 141 Organic Chemistry I
Elective
Elective
Elective

Junior Year

BIO 201 Cell and Molecular Biology
 Elective
 Elective
 Elective

BIO 202 Evolution, Ecology, and Behavior
 Elective
 Elective
 Elective

Senior Year

Upper-level BIO course*
 Upper-level BIO course*
 Elective
 Elective

Upper-level BIO course*
 Upper-level BIO course*
 Elective
 Elective

BIO 241 Invertebrate Zoology
 BIO 245 Conservation Biology
 BIO 372 Animal Behavior
 BIO 374 Genetics
 BIO 376 Entomology
 BIO 378 Plant Physiology
 BIO 381 Immunology
 BIO 383 Aquatic Biology
 BIO 384 Neurobiology
 CHE 255 Biochemistry
 GEO 241 Paleontology

BIO 242 Vertebrate Zoology
 BIO 370 Ecology
 BIO 373 Cell Biology
 BIO 380 Microbiology
 BIO 383 Developmental Biology
 BIO 377 Plant Systematics
 BIO 385 Evolution
 BIO 386 Comparative Physiology
 BIO 388 Molecular Genetics
 CHE 255 Biochemistry
 PSY 260 Introduction to Neuroscience

*At least 3 courses at the 300-level are required for the biology major

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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall
 CHE107 General Chemistry
 MCS121 Calculus I

Spring
 CHE141 Organic Chem
 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

<ul style="list-style-type: none"> 1. LAT101 Elem. Latin or GRE101 Elem. Greek 2. REL110 The Bible or CUR140 Biblical Tradition 3. FTS100 First Term Seminar or CUR100 Historical Perspective 4. Elective 	<ul style="list-style-type: none"> 1. LAT102 Elem. Latin or GRE102 Elem. Greek 2. CLA101 Myth and Meaning 3. Elective 4. Elective
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COMMUNICATION STUDIES

Our Communication Studies major prepares students for lives of leadership, citizenship, and collaboration. We emphasize the liberal arts skills of writing, research, critical thinking, oral communication, and innovative problem solving. Civic engagement – the practice of applying one’s skills to meet the needs of the world at large – is woven throughout our curriculum and reflected in the department’s foundational course, Public Discourse.

Coursework includes study of communication in contexts as diverse as media, politics, law, organizations, and intercultural interactions. Public Discourse (COM120) and Interpersonal Communication (COM117) are required for potential Communication Studies majors. The department also offers two minors (Civic Leadership and Strategic Communication); Public Discourse (COM120) is required for both of these minors.

ECONOMICS AND MANAGEMENT

The department offers four majors: Economics, Management, Public Accounting, and Accounting. Each major requires completion of the departmental core: E/M101, E/M102, E/M110, E/M125 (or MCS142), and MCS121 (or MCS118 and 119). Students are advised to take E/M101 and E/M102 in consecutive semesters, and to take MCS121 prior to E/M125(Statistics). Students should not take MCS140 (Elementary Statistics).

All prospective E/M majors are encouraged to take the Calculus Placement Exam and to register for the appropriate level fall term, whether the MCS118/119 sequence or MCS121.

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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall	Spring
E/M101 Macroeconomics	E/M102 Microeconomics
FTS100 First-Term Seminar	E/M125 (or MCS119)
MCS121 Calculus (or MCS118)	

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. Elementary education majors should not register for FIT or ACT in HES.

A. Elementary Education Major: The Department of Education offers an Elementary Education major that provides the applicant with a Kindergarten – Grade 6 (K-6) Licensure. To be qualified to teach at the middle level (Grades 5-8) a select group of courses is offered to complete a certified endorsement in the following areas: Communication Arts/Literature, Social Studies, Math and General Science. The middle level endorsement is an option for elementary education majors.

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

C. K-12 Program Teaching: To qualify for licensure in grades Kindergarten through Grade 12 (K-12) students will major in a teaching discipline and then complete the necessary education courses to prepare them to teach at the kindergarten through grade 12 level. Students pursuing this program will major in one of the following areas: Health Education Teaching, Physical Education Teaching, Music Education Teaching (Instrumental or Vocal), Visual Arts Teaching, or World Languages Teaching (Spanish).

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.

D. Coaching Minor: Teacher education students may also qualify for a coaching minor by completing the course requirements as outlined by the Department of Health and Exercise Science. Please refer to the college catalog.

All Teacher Education programs require some initial coursework. During fall semester of the first-year, please contact the Coordinator of Teacher Admissions and Clinical Experiences to create a detailed plan of coursework. The courses listed below should be taken during the first year by all teacher education majors.

First Year Fall Semester:	FTS 100	First Term Seminar
		PSY 100 General Psychology
		COM 120 Public Discourse

MCS: Elementary Education majors who want to pursue the math concentration should choose MCS142 (which has a prerequisite of calculus).

Elementary Education majors **not** pursuing a math concentration should choose either Nature of Math (MCS115) or Elementary Statistics (MCS140).

Secondary Education majors who have math requirements (like calculus) should take the math needed for their teaching major.

January Term: IEX268 Career Exploration

Secondary Education Students: During years one and two all teacher education majors are to take courses that apply to the specific teaching major of choice and/or general liberal arts education requirements in addition to the above.

Elementary Education Students: During years one and two all teacher education majors are to take courses that apply to the area of an elected endorsement and/or general liberal arts education requirements in addition to the above. Liberal arts courses are often met within the elementary teaching major courses required by the Minnesota Board of Teaching for licensure.

Elementary education majors will receive a K-6 teaching license with an option to add a 5-8 middle school teaching endorsement in a specific area of curriculum.

In addition to the completed endorsement coursework, a four-week January Term (1 credit) student teaching experience accompanies the professional student teaching semester.

If students are interested in receiving an endorsement to teach grades 5-8, the following areas of coursework may also be taken during the first year.

Communication Arts/Literature Endorsement Courses

ENG 101, ENG 112, COM 120

Social Studies Endorsement Courses

HIS 130, HIS 140, GEG 101, GEG 102, POL 110, S/A 111

Science Endorsement Courses

BIO 100, CHE 107

Mathematics Endorsement Courses

MCS 115, MCS 121

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 201, 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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.
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Fall FTS100 ENG115 or ENG116 or ENG121 or ENG122 Electives	Spring ENG201 ENG115 or ENG 116 or ENG121 or ENG122 ENG126
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ENVIRONMENTAL STUDIES

A rich array of faculty expertise, courses, research experiences and study abroad opportunities support 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 chosen track as soon as possible.

Five courses form the foundational knowledge of important ideas, concepts, theories, facts and principles related to the interdisciplinary study of the environment:

ENV120; BI0245; ENV250; ENV104 or ENG228 or PHI109; and ENV399. In addition, students choose a seven course track in Physical Science, Life Science, Social Science, or Humanities. For these tracks and the other major requirements, go to Academics on the homepage and click on Environmental Studies and then Courses.

You can begin your program in a number of ways and it will depend on the track that you ultimately choose; 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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, courses in your seven course track or choose electives.

Fall ENV120 ENV250 or ENV104 MCS121	Spring ENG228 or PHI109
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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.

GWS courses appropriate for first-year students are GWS 118: Controversies in Feminism, S/A231: Kinship and Marriage, S/A235: Social Inequality, ENG124: 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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall

GEG101 Intro to Human Geog. **or**
GEG102 World Reg. Geography **or**
GEG105 Intro to Physical Geog.

FTS

Electives

Spring

Geography Elective
Electives

GEOLOGY

Gustavus offers a major and a minor in Geology. The geology program would appeal to students who enjoy learning about the landscapes, hazards, and climate of our world, the interior and natural resources of Earth, and evolution and extinction of life on the planet. Geology is particularly relevant in today's world, because it can answer questions about how the earth responds to change. Geologists evaluate areas for geologic safety, assessing whether earthquakes, hurricanes, floods, volcanoes, or landslides pose a danger to human life and infrastructure. Environmental conservation requires that we understand the processes that shaped that environment long ago, as well as more recent events. The search for natural resources, too, is necessarily a geological search, and geologists play an important role in finding, using, and conserving those resources.

The geology program emphasizes field and research experiences at all levels of the program. Geology students form a close-knit community, working on class research projects, doing fieldwork, and enjoying the activities sponsored by the geology club.

Possible First-Year Program: Besides the listed courses, choose one or two courses from general education areas according to your choice of Curriculum I Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose from electives.

Fall

GEO111 Prin. of Geology
CHE107 General Chem.
or MCS121 Calculus I

Spring

GEO212 Evolution of the Earth
MCS121 Calculus I

HEALTH AND EXERCISE SCIENCE – MAJORS WITHIN THE DEPARTMENT

Physical Education

Physical Education majors prepare for a career in teaching. This major is typically combined with a second academic major such as health education and a minor in coaching. Most students also apply to the Education Department and if admitted, pursue educational licensure. Graduates teach and coach at the elementary or secondary level and many pursue graduate study in physical education, exercise physiology, adapted physical education, sport psychology, sport pedagogy, sports medicine, biomechanics, community or school health education, or motor learning. If a student has questions about the major, he or she should email jherman@gustavus.edu and then contact Dr. Herman early in September once on campus.

Fall, First Year

You do not need a NASP course since this requirement is satisfied by a required course within the major taken during the sophomore year. If you can take PSY100 and T/D102, these courses satisfy a general education requirement and are required for either the P.E. major or Health Education major.

Do not take FIT or ACT courses since the requirement is satisfied within the major. If you are participating in the athletic program, you should register for the .00 credit option for the sport.

Health Education

Stress management, drug education, sexuality education, consumer health....majors in Health Education are preparing for public school teaching, work within community health organizations, and/or graduate study in health promotion, health education, public health, education, chemical dependency, or other health-related field. Combining an undergraduate major in Health Education with a second major in a related field such as Physical Education, any other major with teaching licensure, health fitness, or athletic training is recommended. Required courses are offered within the department, and in Communication Studies and Education. For further information the student should email jherman@gustavus.edu and then contact Dr. Herman early in September once on campus.

Fall, First Year

You do not need a NASP or SOCSCI course since these requirements are satisfied by a required course within the major taken during the sophomore year. Enroll in PSY100, if possible, and other general education requirements such as THEOL, HIPHI, NWEST, etc.

Athletic Training

The Gustavus Adolphus College Athletic Training Education Program (ATEP) prepares students for fulfilling lives of leadership and service in athletic training. Grounded in over 35 years of educational experience and accreditation by the Commission on Accreditation of Athletic Training Education (CAATE), the ATEP at Gustavus is recognized for a combination of in-depth classroom experiences and application of theory through varied clinical experiences. Some students choose to double major in Health Fitness, Health Education, other field, or complete a pre-professional program such as physical therapy or occupational therapy.

Completion of the ATEP fulfills the requirements of the Board of Certification (BOC) for sitting for the national certification examination. Acceptance into the ATEP is competitive. If you have questions, please email the Program Director (kmomsen@gustavus.edu) and then contact Mr.

Momsen early in September once on campus. Please visit the Athletic Training Program website (Academics on the homepage, click on Health and Exercise Science, then Athletic Training, then four year plan).

Athletic Training Education Program

You should complete four general education courses, or courses required for a secondary major or pre-professional program of interest to you. There are no appropriate courses within the major for first-year students.

Health Fitness

The Health Fitness major is a broad-based major designed to introduce students to a variety of future careers and graduate study within the health and exercise science field. Students are prepared for management of health and fitness programs in corporate and clinical settings and for graduate study in exercise physiology, public health, and health promotion. In addition to required courses offered within the department, students complete courses in basic sciences. This major is often combined with a second academic major such as athletic training, business, health education, psychological science or communication studies.

Each student majoring in Health Fitness must complete a twelve to fifteen week full time internship that may be completed either during the semester or summer following the junior or senior year. Students choose settings that best reflect their needs and professional interests.

Students interested in the major must officially apply for admission to the program before Thanksgiving break during fall term, sophomore year. Notification of acceptance will occur no later than January 31.

Information regarding the application process is included within the 2011-2012 College catalog. Students must complete at least 1.5 course credits from the following list of courses by the end of fall term, sophomore year:

HES 220 1.0
HES 222 .5
HES 234 1.0
HES 235 1.0
HES 305 .5

BIO 101 (fall), BIO 118 (spring) or CHE 107(fall) are also appropriate courses for first year students plus other general education requirements.

If you have questions about a major in Health Fitness, you may email Dr. Stephanie Otto (sotto@gustavus.edu) or Dr. Bruce Van Duser (bvand@gustavus.edu). Once on campus in September, the student should visit with Dr. Otto.

HISTORY

Any 100-level course, including CUR100 for students in Curriculum II Three Crowns Curriculum and all 200-level courses (except HIS200) are appropriate for first-year

students. AP and IB coursework can be applied towards the History major, but does not substitute for specific courses within the major.

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

<p>Fall One of the following: HIS104 Envir. History HIS110 Modern Europe I HIS130 Am. History I HIS160 Mod. Lat. Am. HIS175 Pre-Mod. East Asia or CUR100 or any level 2 class</p>	<p>Spring One of the following: HIS120 Mod. Eur. II HIS170 Mod. East Asia or CUR110 or other level 2 class</p>
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JAPANESE STUDIES

You will see the interdisciplinary nature of this major as its courses come from JPN101, 102, 201, 202 Japanese language; ENG238: Japanese Literature; POL255: East Asian Politics and Development; REL235: Zen and Japanese Culture; REL355: Buddhist Philosophy; HIS170: Mod. East Asia; HIS175: His. of Pre-Mod. East Asia; HIS278: Intro to Mod. Japan; JPN170 Intro to East Asian Lit.; JPN270 Mod. Japanese Lit. and Culture; JPN271 East Asian Women Lit.; JPN272 Japanese Film; MLC265 Intercultural Film. You should begin immediately with the language. If you have no previous experience, take JPN101. For a Japanese language placement test, contact Prof. Toshiyuki Sakuragi (sakuragi@gustavus.edu) or Prof. Lianying Shan (lshan@gustavus.edu).

LATIN AMERICAN, LATINO, AND CARIBBEAN STUDIES (LAS)

The Latin American, Latino, and Caribbean Studies (LALACS) Program is a new interdisciplinary major that allows students to study the Americas across a wide spectrum of the humanities and social sciences. Choose from courses from many fields, including History, Art, Sociology and Anthropology, Literature, Religion, Theater, Spanish and French. You must take at least one language course (in Spanish or French) at the 200 level or above, so if you are starting at the elementary level, you should start now. See catalog for details.

Possible First-Year Program: Besides the courses recommended below, we suggest that you choose one or two courses from general education areas (although many LALACS courses fulfill general education requirements).

<p>Fall HIS160</p>	<p>Spring 200 level History courses</p>
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Language course	from elective list or REL273 Religion and Politics In Latin America
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MATHEMATICS AND COMPUTER SCIENCE

The department offers courses in mathematics, computer science, and statistics. Courses in mathematics and statistics can be used to satisfy the Curriculum I Liberal Arts Perspective MATHL general education requirement, as can a few courses from other departments. Curriculum II Three Crowns Curriculum 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 registering for calculus should take a calculus placement test. See instructions in Calculus Placement section of this manual. 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 Math.

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.

Computer Science: Students interested in computer programming or plan to major in either mathematics or computer science, should 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 may take MCS142 instead of E/M125; however, they should **not** take MCS140.

MODERN LANGUAGES, LITERATURES, AND CULTURES

See language placement and equivalency information at the beginning of this manual. Remember that Curriculum I requires the proficiency of two semesters of a foreign language and Three Crowns Curriculum 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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall
Foreign Language
101, 201, or 251

Spring
Foreign Lang.
102, 202, or 252

In the case of Spanish, the following numbers apply to both Fall and Spring: 101, 103/200, or 250.

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, try 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., Wed. and Thurs. 3:30-4:20
- Gustavus Wind Orchestra Mon. and Wed. 4:30-6:20 and Thurs. 4:30-5:20
- Gustavus Jazz Lab Band Tues., Wed. and Thurs. 8:30-9:20 p.m.
- Adolphus Jazz Ensemble Tues., Wed. 7:30-8:20 p.m.
- Vasa Wind Orchestra Tues., Thurs. 5:30-6:45
- 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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall	Spring
MUS111 (Theory 1) (.75) together with MUS103 (.25)	MUS112 (Theory 2)(.75) together with MUS104 (.25)
Music Lessons (.5)	Music Lessons (.5)
Music Ensembles (.25)	Music Ensembles (.25) (PSY100 suggested if you plan to go into Education)
Elective or Personal Fitness (.5)	
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 \$500 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, you can indicate interest in Jazz Ensemble, Handbells, 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, jazz bands, and brass, 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. 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, violas, cellos, flutes, oboes, clarinets, alto

and tenor 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 \$55 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 instruments. Single reeds and double reeds are available from the Woodwind Area Coordinator or one of the Wind Orchestra Conductors 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 two pieces. 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, preferably in the first year, is recommended.

Students should request a Nursing faculty advisor by meeting with the department's administrative assistant, anytime after the first semester, if they intend to pursue the major.

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, fall, fulfills NASP (CI)
CHE107 General Chemistry, fall, fulfills NASP (CI)
BIO118 Microbes and Human Health, spring, NASP (CI)
HES233 Anatomy and Physiology, fall and spring, NASP (CI)
NUR239 Nutrition, fall 2013
PSY100 General Psychology, fall and spring, SOCSCI (CI)
PSY234 Developmental Psychology, fall and spring

Certification as a nursing assistant is required prior to entering the nursing program in the junior year.

One from the following:

S/A111 Cultural Anthropology, fall and spring, SOCSCI and NWEST (CI)
S/A112 Principles of Sociology, fall and spring, SOCSCI (CI)
S/A231 Kinship, Marriage and Sexuality, fall, SOCSCI (CI)
S/A237 American Minorities, spring, SOCSCI (CI)

One supporting course in Ethics must be completed before graduation. It is better to take it earlier than later, chosen from the following:

PHI109 Philosophies of the Environment, spring, HIPHI, WRITI
PHI230 Buddhist Philosophy, fall, HIPHI, NWEST, WRITI
PHI243 Ethics of International Development, spring even years, HIPHI, NWEST, WRITI
PHI246 Ethical Theory, fall, HIPHI, WRITI
PHI247 Applied Ethics, fall, HIPHI
REL233 Christian Social Ethics, spring even years, HIPHI
REL243 Ethics and Medicine, fall odd years, SOCSCI

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

The following possible programs for the first two years don't have to be in this order. However, it is a good idea to take care of your non-English language requirement and PSY100 in the first year.

Pay attention to the semesters these courses are offered.

There is no need to take BIO101 and CHE107 at the same time unless you are trying to keep certain other pre-health programs possible. See back of the *Advising and Registration Manual*. See BIO section of the manual about taking BIO and CHE at the same time.

First Year			
	Fall	BIO101 PSY100 FTS Language?	Spring BIO118 HES233 Gen.Ed. Language? HES – FIT .5
Second Year			
	Fall	CHE107 NUR239 fall,2013 Two more courses HES – ACT	Spring PSY234 S/A see above Two more courses HES – ACT
Third Year			
	Fall	NUR302 NUR304 NUR306 NUR308	Spring NUR336 (2) NUR338 One more course
Fourth Year			
	Fall	NUR386 NUR388 Two more courses	Spring NUR392 NUR397 (WRITD) Two more courses

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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall	Spring
PHI 100 level	PHI202 Mod.Philosophy
PHI201 Ancient Philosophy	Foreign Language
PHI247 Applied Ethics	Electives
Foreign Language	

PHYSICS

It is important that students who intend to major in physics or are interested in pre-engineering take **Physics 195/196, The Cosmic Universe and MCS121, Calculus I (or higher) in the fall semester of their first year.** Failure to do this will make it more difficult for the student to complete the full range of physics courses which are desirable for graduate or professional school preparation. Please note that an AP test in Physics will not usually substitute for **The Cosmic Universe** as the topics covered are usually not the same.

(See the Pre-Professional Interests section for information about pre-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 generally 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 physics sequence. In addition, the required experimental modern physics laboratory and senior theory courses presume a background gained in preceding courses.

Historically, one of the best predictors of a student's ability to succeed in the physics/math sequence during their first semester at Gustavus is their Math ACT score. If there are questions about the appropriateness of a proposed course of study, please contact the Physics Department during the summer registration sessions.

Students who take Physics for pre-health professions pre-requisites should usually take the other PHY sequence: namely, General Physics I and II without calculus, PHY120/121 and PHY170/171 or General Physics I and II with calculus PHY122/121 and PHY172/171.

Possible First-Year Program: Besides the courses listed below, choose one or two courses from general education areas according to your choice of Curriculum I Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall	Spring
PHY195 The Cosmic Universe	PHY205 The Mechanical Universe

PHY196 The Cosmic Universe Lab	PHY206 The Mechanical Universe Lab
MCS121 Calculus I (or MCS122 Calculus II or higher, if appropriate)	MCS122 Calculus II (or MCS222 Multivariable Calculus, if appropriate)

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 and 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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall
POL110 or 130 or 150
or 160

Spring
POL110 or 130 or 160
or other Social Science area

PSYCHOLOGICAL SCIENCE

Possible First-Year Program: Besides the listed courses, choose two or three courses from general education areas according to your choice of Curriculum I Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, 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 or in the spring include HIS221 as a possibility.

Most students have no experience with religion course requirements before coming to Gustavus. The following course descriptions might be helpful as they make their choices.

**Brief descriptions of THEOL courses offered by the Religion Department in Fall 2013.
(Not all courses in the Religion Department fulfill the THEOL requirement.)**

REL 110: The Bible (Couey, Elledge)

This course surveys the Jewish and Christian writings that have come to be known as the Bible from an academic viewpoint, focusing on its historical setting, its literary style, and the variety of perspectives within it. We approach the material through a mix of lecture, close study of the text, and group discussions. Students will gain greater knowledge of the content of the Bible, the issues that it raises, and its importance for Judaism and Christianity.

REL 112 Studies in Religion (Solberg)

Religions seem to have arisen in response to questions human beings cannot seem to stop asking: Where do we come from? What if anything happens “afterwards”? Does life have any purpose or meaning? What makes some acts good and others evil? Is one set of beliefs just as good as another? While some religious people claim to have [all] the [right] answers, people who study religion seriously find the questions themselves fascinating; how we answer them tells us at least as much about ourselves as it does about religion. “Studies in Religion” is an opportunity to read, think, write, and discuss vital questions, to explore and try out better--rather than “correct”—answers; and to learn much about what religion is and how it is lived out in the Abrahamic faith traditions: Judaism, Christianity, and Islam.

REL 113: Religion in America (Ruble)

The United States' motto, E pluribus unum or “Out of many, we are one,” suggests that living with diversity is a simple and well-accepted part of being American. In this course, we read texts written by religious men and women over the last 500 years. We consider the diversity of religious traditions in America (Baptist! Mormons! Muslims!) and how Americans have thought about questions raised by diversity (Who is saved? Can people who believe different things about God live together well?). Religion in America explores these ideas through lectures and class discussions. It helps students understand more about the religious traditions, ideas, and controversies that influence life in the United States.

REL 122 Introduction to Christian Thought (Goodwin): not offered in Fall 2013.

REL 123: Faith, Religion, and Culture (Gaebler)

This course helps students to discover, test, and “own” the convictions that move them, showing how ethics gives us tools to move beyond simply saying “Everyone’s entitled to their own opinion.” The content of the course is mostly from the Christian tradition; the part of the tradition we focus on is “faith.” The class begins by asking “What’s the problem?” We explore the idea of “sin” by reading and discussing life in a prison camp during WWII. Then we consider the claim that “Christianity’s the answer,” focusing on the Biblical story from Abraham to Jesus. Since Christian tradition rests on the Jewish tradition, students will become more familiar with Christianity’s shared history with Judaism. We end the class asking, “What difference does it make, anyway?” Throughout the semester, we read people who, by faith, were led to do extraordinary things

REL 123: Faith, Religion, and Culture (G. Paul): not offered in Fall 2013.

This version of Faith, Religion and Culture explores the interaction between personal faith and the history of Christianity, emphasizing the question of what "faith in God" means, comparison with Islam and Buddhism, and the relationship between religion and science.

REL 223: Christ, Culture and Nature (G. Paul)

Christ, Culture and Nature is an advanced course for students with a basic understanding of Christianity. It emphasizes the relationship between Christ and culture, interreligious dialogue with Islam and Buddhism, and the dialogue between religion and science.

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 to 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 3 Crowns Curriculum students will already take one or two courses that fulfill requirements for a religion major.)

Fall	Spring
Religion 110 or 112	Religion 115
Foreign Language (esp. Greek, Hebrew or Latin)	Foreign language (esp. Greek, Hebrew or Latin)
English	

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. The Religion Department strongly encourages that prospective majors plan ahead to incorporate international study into their major experience.

RUSSIAN AND EASTERN EUROPEAN STUDIES

This interdisciplinary major familiarizes students with language, literature, culture, civilization, history and economics of Russia and other eastern European nations. Students take classes in Russian language, literature, culture and history, and optionally, political science and other fields approved by the program director.

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. Students with previous Russian language experience should contact Professor Crnkovic for a placement assessment.

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 (SWE) courses at the elementary (100), intermediate (200), and advanced (300) levels, we offer Scandinavian area/cultural studies (SCA) courses on Nordic literature, Nordic history, and Nordic society and culture. These SCA courses are taught in English with an emphasis on interdisciplinary cultural studies of contemporary Scandinavia. These area/cultural studies courses are intended for both Scandinavian Studies majors and minors, and for the general student. Most SCA courses fulfill general curriculum requirements.

Possible First-Year Program: Besides the listed Swedish language (SWE) courses and Scandinavian area/cultural studies (SCA) courses, choose two or three courses from general education areas according to your choice of Curriculum I Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall 2013	Spring 2014
SWE101	SWE102
*SWE201	SWE202
*SWE301	SWE344
SCA224	SCA350
SCA234	SCA344
HIS218	HIS219

*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 Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose S/A electives.

Fall
S/A111 Cult. Anthro.
or
S/A112 Prin. of Soc.

Spring
S/A111 Cultural Anthropology
or
S/A112 Principles of Soc

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 Development (7586).

If you are in Curriculum II 3 Crowns Curriculum, see your 3 Crowns Curriculum 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. Pre-requisite requirements vary between programs so pre-dental students are advised to study carefully the requirements of the dental schools of their choice. Interested students are encouraged to consult the *ADEA Official Guide to Dental Schools* at the earliest opportunity to plan for the entrance requirements of a specific dental school. A copy is available in Career Development.

The following courses at Gustavus are appropriate, based on the overall requirements and recommendations of most dental schools. The required science courses should be completed by the spring of the junior year, in order to prepare for the Dental Admission Test (DAT). Some required and recommended courses are listed below:

Art—ART-110 or ART-234 is recommended.

Biology—BIO-101 and BIO-102 (BIO-201 and BIO-202 are recommended and are pre-requisites for BIO380) (BIO-380 is required by some programs, recommended)

Chemistry—CHE-107, CHE-141, CHE-251, CHE-255, CHE-258.

English—two composition courses preferred. A WRITI (writing intensive) course can count as one.

Health and Exercise Science—HES-234 and HES-235 are recommended.

Mathematics—one semester of Calculus, Computer Science, or Statistics. (E/M125 is not acceptable.)

Physics—PHY-120/121 and PHY-170/171 or PHY-122/121 and PHY-172/171.

Psychological Science—PSY-100.

Elective courses should be selected to give the student as broad and liberal an education as possible within the limited time available. 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.

Sample Curriculum	
First Year	Fall: CHE107 BIO101 FTS100 (WRITI) PSY100 or Elective
	Spring: CHE141 BIO102 PSY100 or Elective MCS118+119 or 121 or 177 or 142
Second Year	Fall: CHE251 ENG (Composition) BIO201(rec)
	Spring: CHE258 Elective MCS118/119 or 121 or 177 or 142
Third Year	Fall: PHY120/121or122/121 ART110 or 234(rec) HES234 (rec.)
	Spring: PHY170/171or 172/171 HES235 (rec.)
Fourth Year	Fall: CHE255 or Spring
	Spring: BIO380 rec.

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 secured 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 the Minnesota State University at 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 also require more than four years of undergraduate study. 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.

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 (this option has rarely been exercised by Gustavus students). The College has established transfer equivalencies for courses in our 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 to as an undergraduate.

Students wishing to pursue graduate studies in engineering without earning a baccalaureate degree in engineering (a popular option with Gustavus students) should complete the Gustavus degree with a strong major in physics or, for chemical engineering, chemistry. Both of these preparations should ideally include some undergraduate research experience and require strong academic records. Gustavus graduates moving directly into graduate studies in engineering normally receive substantial tuition waivers, and graduate 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, PHY195/196 and PHY205/206. Recommended second year courses are PHY215/216, PHY225, PHY230, PHY270/271, MCS222. Many engineering 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, such as Matlab, Python, C++, Java, or the equivalent. **It is important to begin the physics, calculus or chemistry course sequence in the fall semester of the first year.**

Possible First-Year Program: Besides the courses listed below, choose one or two courses from general education areas according to your choice of Curriculum I Liberal Arts Perspective or Curriculum II 3 Crowns Curriculum, or choose electives.

Fall	Spring
PHY195 The Cosmic Universe	PHY205 The Mechanical Universe
PHY196 The Cosmic Universe Lab	PHY206 The Mechanical Universe Lab
MCS121 Calculus I (or MCS122 Calculus II, if appropriate)	MCS122 Calculus II (or MCS222 Multivariable Calculus, if appropriate)

Chemistry is the expected academic major for pre-chemical engineers. In the first semester, students interested in chemical engineering should take CHE 107 Principles of Chemistry and MCS 121 Calculus I (or MCS 122 Calculus II, if appropriate). In the spring of the first year, students should take CHE 141 Organic Chemistry I and MCS 122 Calculus II (or MCS 222 Multivariable Calculus, if appropriate).

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, The Cosmic Universe, The Mechanical Universe, and The Electromagnetic Universe should be taken, not General Physics I and II (although in special circumstances, the University of Minnesota will accept General Physics I and II).

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 go to 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

Medical school entrance requirements vary somewhat, but all schools require the completion of a bachelor's degree. While any academic major may be pursued, there are some uniform natural and social science courses which are required. Interested students are encouraged to consult a publication of the Association of American Medical Colleges titled "Medical School Admission Requirements" at the earliest opportunity to plan for the entrance requirements of a specific medical school. A copy is available in the Career Development Office.

In general, medical school plans should be formulated around the state-funded institution for the state of residence (e.g., the University of Minnesota for Minnesota, 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 appropriate for entrance to the private medical schools.

The following courses at Gustavus are appropriate, based on the overall requirements and recommendations of most medical schools. The required science courses should be completed by the spring of the junior year, in order to prepare for the Medical College Admission Test (MCAT). Some required and recommended courses are listed below:

Biology—BIO-101, BIO-102 (BIO-201 and BIO-202 are recommended. They are pre-requisites for BIO374 and 380.)

Chemistry—CHE-107, CHE-141, CHE- 251, CHE-255, CHE-258.

English—one composition and one literature course.

Mathematics—MCS-118/119 or MCS-121, and MCS-142 or other statistics strongly recommended (not E/M-125).
 Physics—PHY-120/121 and PHY-170/171 or PHY-122/121 and PHY-172/171.
 Psychological Science—PSY-100
 Sociology/Anthropology – S/A112
 Elective – Humanities or Social Science course with intensive writing (WRITD), 200 or 300 level.

Please read the advising notes in the Biology section of this manual to determine whether or not you should begin with both BIO101 and CHE107 in the fall.

Remember that science courses are usually offered only one semester/year.

Sample Curriculum									
First Year	<table border="0"> <tr> <td>Fall: CHE107</td> <td>Spring: CHE141</td> </tr> <tr> <td>BIO101</td> <td>BIO102</td> </tr> <tr> <td>FTS100 (WRIT)</td> <td>ENG – Lit.</td> </tr> <tr> <td>PSY100 or Elective</td> <td>PSY100 or S/A 112</td> </tr> </table>	Fall: CHE107	Spring: CHE141	BIO101	BIO102	FTS100 (WRIT)	ENG – Lit.	PSY100 or Elective	PSY100 or S/A 112
Fall: CHE107	Spring: CHE141								
BIO101	BIO102								
FTS100 (WRIT)	ENG – Lit.								
PSY100 or Elective	PSY100 or S/A 112								
Second Year	<table border="0"> <tr> <td>Fall: CHE251</td> <td>Spring: CHE258</td> </tr> <tr> <td>BIO201 (rec)</td> <td>BIO202 (rec)</td> </tr> <tr> <td>MCS118/119 or 121</td> <td></td> </tr> </table>	Fall: CHE251	Spring: CHE258	BIO201 (rec)	BIO202 (rec)	MCS118/119 or 121			
Fall: CHE251	Spring: CHE258								
BIO201 (rec)	BIO202 (rec)								
MCS118/119 or 121									
Third Year	<table border="0"> <tr> <td>Fall: PHY120/121 or</td> <td>Spring: PHY170/171</td> </tr> <tr> <td>PHY122/121 (if U of Minn.)</td> <td>or</td> </tr> <tr> <td>CHE255</td> <td>PHY172/171 (if U of Minn.)</td> </tr> </table>	Fall: PHY120/121 or	Spring: PHY170/171	PHY122/121 (if U of Minn.)	or	CHE255	PHY172/171 (if U of Minn.)		
Fall: PHY120/121 or	Spring: PHY170/171								
PHY122/121 (if U of Minn.)	or								
CHE255	PHY172/171 (if U of Minn.)								
Fourth Year	Fall or Spring: MCS142 or equivalent Humanities or Social Science, WRITD, level 200 or higher								

OCCUPATIONAL THERAPY

Pre-requisite requirements vary between programs so pre-occupational therapy students are advised to study carefully the requirements of the occupational therapy programs of their choice. Interested students are encouraged to refer to The American Occupational Therapy Association, Inc. website to view a list of accredited OT Doctoral-Level Programs and OT Master's Level Programs at the earliest opportunity to plan for the pre-requisite requirements of a specific occupational therapy program. Some required and recommended courses are listed below:

Health and Exercise Science — HES-214, HES-234, HES-235

Mathematics—one statistics course (not E/M-125).

Psychological Science—PSY-100, PSY-234, PSY-241, and PSY-334.

Sociology/Anthropology—S/A-111 or S/A-112.

Research Methods in your major – required by some programs, recommended.

Sample Curriculum

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

PHARMACY

Pre-requisite requirements vary between programs so pre-pharmacy students are advised to study carefully the requirements of the pharmacy schools of their choice. Interested students are encouraged to consult a publication of the American Associate of Colleges of Pharmacy titled “Pharmacy School Admission Requirements” at the earliest opportunity to plan for the entrance requirements of a specific pharmacy school. A copy is available in the Career Center.

The following courses at Gustavus are appropriate, based on overall requirements and recommendations of most pharmacy schools. The required science courses should be completed by the spring of the junior year, in order to prepare for the Pharmacy College Admission Test (PCAT). Some required and recommended courses are listed below:

Biology—BIO-101, BIO-102 and BIO-118 or BIO-380 (BIO-201 and 202 are pre-requisites for BIO-380).

Chemistry—CHE-107, CHE-141, CHE-251, CHE255, CHE-258.

Communications—COM-120.

Economics—E/M-101 or E/M-102.

English—two composition courses. A WRITI (writing intensive) course can count as one.

Health and Exercise Science—HES-234, HES-235.

Mathematics—MCS-118/119 or MCS-121, and MCS-142.

Physics—PHY-120/121 and PHY-170/171; or PHY122/121 and PHY-172/171.

*University of Minnesota requires Physics with Calculus

Psychological Science - PSY-100

Social and Behavioral Sciences : 2 electives from PSY and S/A.

Sample Curriculum

First Year	Fall: CHE107 BIO101 FTS100 (WRITI)	Spring: CHE141 BIO102 PSY100
Second Year	Fall: CHE251 MCS118/119 or MCS121 HES234	Spring: HES235 CHE258 BIO118 or 380 (see above) COM120
Third Year	Fall: PHY120/121 or PHY122/121 E/M101 or 102 PSY234 or 241 or 334 CHE255	Spring: PHY170/171 or 172/171 Elective from PSY or S/A or 4 th yr MCS142
Fourth Year	Fall: Elective from PSY or S/A English – composition (rec)	

PHYSICAL THERAPY

Pre-requisite requirements vary between programs so pre-physical therapy students are advised to study carefully the requirements of the physical therapy programs of their choice. Interested students are encouraged to refer to The American Physical Therapy Association, Inc. website www.apta.org to view a list of accredited Physical Therapy Programs at the earliest opportunity to plan for the pre-requisite requirements of a specific physical therapy program. Some required and recommended courses are listed below:

Biology—BIO-101, BIO-102 (BIO-118 or other advanced biology course with lab).

Chemistry—CHE-107, CHE-141.

Health and Exercise Science HES-214, HES-234, HES-235.

Mathematics—Statistics (not E/M-125); MCS118/119 or MCS121 is a pre-requisite for MCS142, Intro to Statistics.

Physics—PHY-120/121 and PHY-170/171 or PHY-122/121 and PHY-172/171.

Psychological Science—PSY-100, PSY-234, PSY-241, PSY-334 (Lifespan Development needs both PSY-234 and PSY-334.

Sociology/ Anthropology—S/A-111 or S/A-112 or other sociology/anthropology course.

Research Methods in your major – recommended.

Sample Curriculum

First Year	Fall: BIO101 S/A111or112 or other FTS100	Spring: BI0102 PSY100 MCS118/119 or MCS 121
Second Year	Fall: or 3rd yr HES234 CHE107	PSY241 Spring: CHE141 Stats (MCS or PSY) HES235 PSY234
Third Year	Fall: PHY120/121 or PHY122/121 PSY241 HES214	Spring: PHY170/171 or PHY172/171 PSY334 BIO118

VETERINARY MEDICINE

Pre-requisite requirements vary between programs so pre-veterinary students are advised to study carefully the requirements of the veterinary programs of their choice. Interested students are encouraged to consult a publication of the Association of American Veterinary Medical Colleges titled “Veterinary Medical School Admission Requirements” at the earliest opportunity to plan for

the entrance requirements of a specific veterinary school. A copy is available in Career Development Office.

Admission requirements vary with schools, but most include the courses required by the University of Minnesota. Listed below are the Gustavus courses needed to meet these requirements:

Biology—BIO-101, BIO-102, BIO-201, BIO-202, BIO- 242 Vertebrate Zoology (BIO 102 or BIO 373 Cell Biology or BIO 386 Comparative Physiology can be used to meet the Zoology requirement at the U of M) BIO-374 and BIO-380.

Chemistry—CHE-107, CHE-141, CHE-251, CHE-255 and CHE-258.

English Composition—(WRITI/D Three courses from at least two departments, one of which must be Level II or higher, accepted at U of MN)

Mathematics—MCS-118/119 or MCS-121 and MCS142 or equivalent recommended.

Physics—PHY-120/121 and PHY-170/171 or PHY-122/121 and PHY-172/171.

***Arts & Humanities—Two courses required - Art, Literature and Music courses can usually be used to fulfill this requirement, as can many Humanities, Theater, Philosophy, Religion and Foreign Language courses.**

***History & Social Sciences—Two courses required - Anthropology, Economics, Geography, History, Political Science, Psychological Science, Social Science and Sociology courses can be used to fulfill this requirement.**

***Students that have earned their Bachelors degree from Gustavus will need to have completed 4 course credits from these two areas (Arts & Humanities or History & Social Sciences).**

Sample Curriculum		
First Year	Fall: CHE107 BIO101 FTS100	Spring: CHE141 BIO102
Second Year	Fall: BIO201 CHE251 MCS121	Spring: BIO202 CHE258
Third Year	Fall: BIO374 PHY120/121or PHY122/121	Spring: BIO242 PHY170/171or PHY172/171
Fourth Year	Fall: CHE255 Statistics	Spring: BIO380