

HENDRIX

C O L L E G E

GUIDE TO ACADEMIC PLANNING
2015-2016





INTRODUCTION

The Hendrix Guide to Academic Planning

The *Guide to Academic Planning (the Guide)* is a resource for Hendrix students and their academic advisors. Used in conjunction with the official rules in the *Hendrix Catalog*, the *Guide* provides insights for students as they plan and design their curricular program at Hendrix.

The *Guide* contains six sections:

- 2 **TOOLS FOR YOUR ACADEMIC JOURNEY**
Foundations to Build Success
Working with your Faculty Advisor
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The Catalog Rules!

In some sections, this *Guide to Academic Planning* and the *Hendrix College Catalog* cover similar material. However, the *Catalog* gives the **official rules**. Any discrepancy between the *Guide* and the *Catalog* will be resolved in favor of the provisions in the *Catalog*.

TOOLS FOR YOUR ACADEMIC JOURNEY

Foundations to Build Success

We are excited to have you join us at Hendrix. Reaching your best self requires personal commitment and active engagement in our community. Regardless of your academic planning and preparation, experience tells us that the following steps are critical to ensuring that your efforts lead to the best results:

- Attend class. Yes, you have to show up!
- Communicate with us. Use and respond to your Hendrix email.
- Take care of your mental and physical health. Note the resources on campus. Be smart – stay healthy.

Working with your Faculty Advisor

Your Faculty Advisor is an integral part of planning your academic program. At Hendrix, academic advising is a cooperative partnership between advisee and advisor, grounded in mutual respect with a common commitment to your growth and success. Every new student is assigned a Faculty Advisor who has been trained to work with new students. You need to be able to work well with your advisor.

When you arrive on campus, you will meet with your academic advisor and together set a final academic schedule for this first year. Most new students retain their first advisor through the first three semesters. Most students identify a major by the spring of the sophomore year. After you have confirmed a major through course work, you will need to secure an advisor in your major department / program. This requires a conversation with the prospective advisor. You must declare a major no later than the first semester of your junior year.



Advisees are responsible for:

- Educating themselves regarding the College and departmental curricular requirements;
- Seeking the aide of their advisor and working closely with him or her to develop and pursue a coherent course of study, in light of the curricular requirements and the student's own academic, career, and life goals;
- Developing responsible ownership over their academic planning process, monitoring their own academic progress, and completing all graduation requirements;
- Declaring a major no later than the first semester of their junior year, but preferably by the end of the sophomore year;
- Responding in a timely manner to communications from advisors, course instructors, and staff;
- Final responsibility for knowing and completing all graduation requirements, for planning and monitoring academic progress, and for using the faculty academic advising system rests solely with the individual student.

Advisors are responsible for:

- Providing advisees with appropriate, accurate information concerning academic policies, programs, procedures and resources of the College;
- Being available to advisees for the discussion of their academic plans and concerns in light of their interests and abilities within the liberal arts and engaged learning curriculum;
- Being available during regular office hours or by appointment;
- Providing counsel or making proper referrals for advisees exploring the selection of a major and long-term academic, career, and life goals;
- Working cooperatively with each advisee in a manner that respects advisees' autonomy and intellect and encourages advisees' ownership over their educational projects and plans;
- Following the College's procedures for advisor involvement in registration, which include approving advisees' course registrations and changes, and supporting the College's processes for working with advisees at academic risk.

Relevant Academic Offices: Office of Academic Success

The Office of Advising and Academic Success provides tools to promote academic achievement. Services offered include:

- **ONE-ON-ONE ACADEMIC COUNSELING** You can arrange these meetings by appointment.
- **ACADEMIC RESOURCES AND REFERRALS** Come ask us about academic tips including time management, test preparation, and note-taking.
- **SERVICES FOR STUDENTS WITH DISABILITIES** Hendrix College is committed to providing “reasonable accommodation,” in keeping with section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1992. Students requesting accommodations should contact Academic Success at (501) 450-1204 to make an appointment and begin the review process. Additional information appears elsewhere in the *Catalog* under “Students with Disabilities.”
- **PEER TUTORING** Peer tutoring is offered for a variety of introductory courses. Hours vary each semester. Check with Academic Success.

Office of the Registrar

The Office of the Registrar maintains official academic records for all students. You should consult that Office with any questions or concerns relating to academic standing or degree progress.

This is your education!

There are many offices, advisors, and tools to support you as you create your Hendrix experience, but this is your education. Final responsibility for knowing and completing all graduation requirements rests solely with you.

Hendrix Degree Audit Sheet 2015-2016 Catalog

THE ACADEMIC PROGRAM: AN OVERVIEW

A Hendrix degree is designed to promote learning across the liberal arts and to develop the whole person through engagement that links the classroom with the world. We want you to lead a life of accomplishment, integrity, service and joy.

The official rules for a Hendrix degree are set out in *the Catalog*. The Registrar’s Office is in charge of monitoring your degree progress as well as maintaining the rules for degree completion. The Hendrix College degree requirements are laid out on the Degree Audit form (next page).

ACADEMIC PROGRAM OVERVIEW: The Hendrix degree requires 32 courses to insure breadth and depth. These courses broadly fall into three equal groups:

- Collegiate Center
- Your major
- Your electives

This *Guide* gives only a rough introduction to the curriculum. Please consult the *Catalog* for official rules and options.

The Collegiate Center

The Collegiate Center is the most complex area of the curriculum and the most relevant to new students. It is made up of four components to insure breadth and flexibility. The four components are the:

- First Year Experience* (combines two requirements):
- *The Engaged Citizen (TEC)* - a one credit common course. This course is required of all first-year students. *TEC* courses seek to illuminate the many ways of engaging as a citizen. Dyads (two faculty and their two classes) come together to explore a topic related to civic engagement from different “ways of knowing.”
 - *Explorations* - a one-quarter credit weekly seminar. This course is required of students in their first semester. Explorations focuses on the challenges of self-authorship and community transitions.

Learning Domains: These six areas (seven courses) ensure that you acquire a broad understanding of material across multiple disciplines. Courses that fulfill these learning domains carry specific codes. You can find the specific codes listed next to the courses in the Course Schedule and the *Catalog*. The learning domains are:

- Expressive Arts (EA)
- Historical Perspectives (HP)
- Literary Studies (LS)
- Natural Science Inquiry (NS, NS-L) - two courses
- Social and Behavioral Analysis (SB)
- Values, Beliefs and Ethics (VA)

Name _____ Major _____ Minor _____

ID# _____ Advisor _____ Graduation Catalog _____

| Collegiate Center Requirements (3) | | Elective Courses | |
|---|-------|--|-------|
| 1. The First-Year Experience | | _____ | _____ |
| The Engaged Citizen (TEC) | _____ | _____ | _____ |
| Explorations | _____ | _____ | _____ |
| 2. Learning Domains | | _____ | _____ |
| <i>Seven LD codes below</i> | | <i>AND Seven disciplines with LD codes below</i> | |
| EA | _____ | 1. | _____ |
| HP | _____ | 2. | _____ |
| LS | _____ | 3. | _____ |
| NS-L (1) | _____ | 4. | _____ |
| NS/NS-L (2) | _____ | 5. | _____ |
| <i>[NS & NS-L must be from different departments (not disciplines)]</i> | | _____ | _____ |
| SB | _____ | 6. | _____ |
| VA | _____ | 7. | _____ |

| 3. Capacities | | Minor Courses | |
|--------------------------|-------|---------------|-------|
| Writing Level I | _____ | _____ | _____ |
| Writing Level II | _____ | _____ | _____ |
| Foreign Language | _____ | _____ | _____ |
| | _____ | _____ | _____ |
| Quantitative Skills (QS) | _____ | _____ | _____ |
| Physical Activity (PA) | _____ | _____ | _____ |
| | _____ | _____ | _____ |

| Major Courses | | Major GPA | |
|---------------|-------|-----------------------|-------|
| _____ | _____ | Comprehensive | _____ |
| _____ | _____ | (exam, seminar, etc.) | _____ |
| _____ | _____ | | |
| _____ | _____ | | |
| _____ | _____ | | |
| _____ | _____ | | |
| _____ | _____ | | |
| _____ | _____ | | |
| _____ | _____ | | |
| _____ | _____ | | |
| _____ | _____ | | |

Odyssey experiences (AC, GA, PL, SW, UR, SP)

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Capacities: These four areas (five requirements) certify that you acquire certain fundamental academic skills. Courses that fulfill these capacities carry specific codes. You can find the codes listed next to the courses in the *Course Schedule* and the *Catalog*.

WRITING (bi-level program) level I (W1) and II (W2). Writing well is a critical skill. You cannot fulfil these requirements with work outside of Hendrix. You must take care of these here; for example, AP exam or transfer coursework cannot be used.

Most students complete the W1 requirement through a course taken in the first year. You must complete the W1 level requirement by the end of *your second year*. See the *Catalog* for all options and the specific rules herein for international students.

FOREIGN LANGUAGE (two-semester equivalent). You can complete this requirement by taking an exam or passing the second semester of a foreign language. See the *Catalog* for all options and this *Guide* for the specific rules for international students.

QUANTITATIVE SKILLS (QS) (one-semester equivalent). It is important to develop quantitative skills. To complete this requirement, you must receive credit for a Quantitative Skills course at Hendrix or transfer in the credit. See the *Catalog* for all options.

PHYSICAL ACTIVITY (PA) (two-semester equivalent). Complete two different Physical Activity classes before graduation. See the *Catalog* for all options.

Odyssey Experiences: These are engaged-learning opportunities beyond the traditional classroom. For graduation, you must complete at least three activities from three different categories. The six available categories are:

- Artistic Creativity [AC]
- Global Awareness [GA]
- Professional and Leadership Development [PL]
- Service to the World [SW]
- Undergraduate Research [UR]
- Special Projects [SP]

The details and all the rules for the *Odyssey* program can be found on the web site in the *Odyssey Guide*.

ODYSSEY ADVICE FOR FIRST-YEAR STUDENTS:

Relax – you have time: Only three Odyssey experiences required for graduation; you have your entire Hendrix career to create your own Hendrix Odyssey. If you are worried about pacing, you may think about completing one Odyssey during your sophomore, junior, and senior years. There’s no pressure for you to begin your Odyssey program during your first year.

The choice is yours: There are numerous ways to complete Odyssey requirements. Odyssey experiences are best when they are designed to meet your interests and goals.

Engage with us: Come visit the Odyssey Office and start a conversation! We will be happy to speak with you about the details of the program and strategies to develop vague ideas into a workable format.

Your Major

Majors (and minors) are offered in over thirty disciplinary fields, and include opportunities for interdisciplinary studies. This *Guide* gives information on where to start in a major. Discipline-specific major requirements are laid out in the *Catalog*. Most students identify a major by the spring of the sophomore year. You must declare a major no later than the first semester of your junior year.

Major requirements vary significantly since each major requires different types of knowledge and skills. You can graduate with:

- a single major
- two majors (double major) or
- one major and one minor.

These choices for majors and minors are fixed options as we believe that a strong education requires broad exposure to a variety of course work.

Your Electives

The last and easiest piece in your degree are your electives. Choose these based on your academic interests and needs. Enjoy!

INTERNATIONAL STUDENTS: COLLEGIATE CENTER CAPACITIES REQUIREMENTS

International students’ educational progress is aided by special policies regarding the Writing and Foreign Languages Capacities requirements.

WRITING CAPACITY REQUIREMENT AND THE ENGLISH PLACEMENT TEST

All Hendrix students must take ENGL 110 or a 200-level English literary studies course in order to meet the writing level one (W1) capacity requirement. However, many international students need developmental work in their English reading, writing, listening, and speaking skills before they can be successful in the required English courses and other college level courses. To help students develop the skills required for W1 and other courses, Hendrix may require them to complete an English as a Second or Other Language sequence, ESOL 118 and ESOL 119.

All first year international students take an English Placement Test, typically administered at the conclusion of the required Summer Institute for English Language and Culture.

| POSSIBLE TEST OUTCOME | ACTION REQUIRED |
|---|--|
| Placement in ESOL 118 | Student MUST enroll in ESOL 118 in the fall |
| Placement in ESOL 119 | Student MUST enroll in ESOL 119 in the fall |
| Recommendation for ENGL 110 or 200-level English literature (ENGL or ENGF) course | Student should enroll in recommended class as soon as possible to progress towards W1 completion |

The English Placement Test is re-administered at the end of ESOL 118 and ESOL 119, and students may be required to repeat these courses. ESOL 118 and ESOL 119 are taught for credit/no credit; students receive a grade of “NC” (no credit) until placed or recommended for a higher course. While enrolled in the ESOL sequence, students are eligible for test accommodations in their other courses. See Office of Academic Success for details.

TRANSFERS International students who transfer from an accredited American University with course work in English composition do not take the English Placement Test. The English Department uses a student’s grades in non-ESOL English classes at the other university to make a recommendation of ENGL 110 or 200-level literature course. Students who have only completed ESOL course work, must take the English Placement test.

FOREIGN LANGUAGE CAPACITY REQUIREMENT

International students whose native language is not English are not required to study another foreign language to graduate. They will meet the two-semester Foreign Language requirement by completing the W1 requirement.

See *Catalog* for full details of Writing Placement Policy and related policies.

INSIGHTS ON CREATING A SCHEDULE

Your *big* assignment before coming to campus is to create a draft schedule of 3 - 4 courses for each semester before you meet with your advisor. **Do this before you come to campus in August.** While your advisor will discuss your choices with you, you need to bring **your** ideas to the meeting.

NOTES:

- **TEC and Explorations:** All first year students will be placed into a TEC and Explorations section. These **cannot be moved** unless they interfere with your ability to graduate in four years (extremely rare). These will automatically be placed into your schedule.
- **Typical course load** is *four academic classes* for a total of four credits. You need four academic classes – do not add up partial credits in a single semester. Partial credits from *Explorations*, *Music* or *Physical* activity classes do not make a whole.
- **Daily Course Schedule:** Classes typically meet MWF or TR. Remember to keep space for the laboratories that are part of a course. Watch out for an extra 4th period in some first-year math, music and foreign language classes.

ACADEMIC PLACEMENTS: these are related to your math and English background. These will be available on CampusWeb in early August. *Heed these recommendations!* Remember: where you start does not decide how far you can go.

ACADEMIC RESOURCES: Useful tools are grouped on the CampusWeb. Last year’s versions will be posted until the new versions are available.

1. *Hendrix College Catalog* - this is your contract with the College on how to get a degree. Heavy reading, but this is the place to check for the rules.
2. *Guide to Academic Planning* - this is your guide to the majors. Start here to create a schedule.
3. **Services for Students with Disabilities**
4. **On-Line Course Schedule** - what is offered this year and in each semester
5. **Tips on Creating a Draft Academic Schedule**
6. **Student Instruction Manual for On-Line Pre-Registration** - mechanics of placing courses onto your draft schedule.
7. **Daily Course Schedule** - the layout of the academic daily calendar

Privileges and Responsibilities

There are many ways to individualize your Hendrix education while still meeting the official rules in the *Catalog*. You have the privilege of creating something uniquely tailored to you; however, this also means the final responsibility for knowing and completing all the formal graduation requirements rests with you.

GUIDE TO ACADEMIC MAJORS AND MINORS

ACCOUNTING

(See Economics and Business entry, this section.)

AFRICANA STUDIES

Minor

Students wishing to minor in Africana Studies will complete six of the following courses, at least two of which must be at the 300-level or above:

- Two of the following African history courses:
 - HIST 250 *History of Southern Africa*
 - HIST 251 *History of Central Africa*
- One of the following African diasporan history courses:
 - HIST 290 *African American History to 1865*
 - HIST 295 *African American History since 1865*
 - HIST 325 *Africa and the Americas*
- Two literature or cultural courses from the following list:
 - ENGF 358 *African Film*
 - ENGL 245 *African Novel*
 - ENGL 250 *Women and African Literature*
 - ENGL 361 *The Black Writer*
 - ENGL 455 *Chinua Achebe and Wole Soyinka*
 - RELI 360 *African American Religions*
- One elective from the catalog's Africana Studies list of courses, not already taken to fulfill requirements 1 through 4.

Notes:

Study abroad courses and independent studies, if applicable and approved by the Africana Studies Program Committee, could also be used to substitute for courses listed in sections 3, 4 and 5. English majors and History majors may double-count only one course from their major toward the Africana Studies minor.

COURSE PLANNING:

The ideal pattern for fulfilling the requirements of the Africana Studies minor is as follows:

First or Second Year:

Two of the following courses:

HIST 250 *History of Southern Africa*

HIST 251 *History of Central Africa*

Second or Third Year:

One course in African diasporan history (part 3 of the requirements for the minor)

One literature or cultural course (part 4 of the requirements for the minor)

Third or Fourth Year:

A second literature or cultural course (part 4 of the requirements for the minor)

One elective from the list of Africana Studies course offerings

Students who wish to substitute relevant courses studied abroad or Hendrix independent studies to fulfill any requirements for the minor should submit a written request to the Africana Studies Program Committee.

AMERICAN STUDIES

(See Interdisciplinary Studies in the *Hendrix College Catalog*.)

ANTHROPOLOGY

Major

Students may major in Sociology/Anthropology with an emphasis in Anthropology. Requirements for this major and suggestions for course planning are listed under Sociology/Anthropology in this section of the *Guide*.

Minor

Six courses in Anthropology are required including either ANTH 300 *Ethnographic Methods* or ANTH 302 *Archaeological Methods*, ANTH 335 *Geographic Information Science* or ANTH 365 *Anthropological Theory* and one additional Anthropology course numbered 300 or above.

ART

Major

- ARTS 160 *Beginning Drawing*
or
- ARTS 210 *Beginning Sculpture*
or
- ARTS 250 *Beginning Photography*
or
- ARTS 180 *Beginning Ceramics: Handbuilding*
- ARTH 170 *Western Art History Survey I: Prehistory through Medieval*
or
- ARTH 171 *Western Art History Survey II: Renaissance through 20th Century*
- ARTH 430 *Practicum: Professional Development*
- ARTS 497 *Practicum - Studio Art*
- Three-course sequence in studio courses
- Two-course sequence in studio courses
- One additional art history course beyond the Survey level
- One additional studio class

(At least one studio course must be taken in 3-D and one in 2-D.)

Minor

Studio Art:

- ARTS 160 *Beginning Drawing*
- ARTH 170 *Western Art History Survey I: Prehistory through Medieval*
or
- ARTH 171 *Western Art History Survey II: Renaissance through 20th Century*
- Two-course sequence in studio courses
- Two additional studio courses

Art History:

- ARTS 160 *Beginning Drawing*
- ARTH 170 *Western Art History Survey I: Prehistory through Medieval*
- ARTH 171 *Western Art History Survey II: Renaissance through 20th Century*
- One additional art history course at 300- or 400-level
- Two additional art history courses

COURSE PLANNING:

Below is a typical pattern for fulfilling requirements of the studio art major. This is an example of how a student may meet the minimum requirements for a major in art and should not be taken as a prescribed course of study.

| | FALL | SPRING |
|-------------|---|--|
| First Year | ARTS 160 <i>Beginning Drawing</i> or ARTS 210 <i>Beginning Sculpture</i> or ARTS 250 <i>Beginning Photography</i> or ARTS 180 <i>Beginning Ceramics: Handbuilding</i> | ARTH 170 <i>Western Art History Survey I</i> |
| Second Year | 200-level studio Art history | 200-level studio |
| Third Year | 300-level studio Art history | 300-level studio |
| Fourth Year | ARTS 497 <i>Practicum</i> ARTS 430 <i>Practicum: Professional Development</i> | |

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the studio art major consists of: competently presenting a Hendrix College student art exhibition, successful participation in the Juried Senior Art Exhibition, group critiques, an oral presentation, and a professional portfolio.

ASIAN STUDIES

A number of 100-level and 200-level courses across the curriculum serve as excellent gateways to the interdisciplinary study of Asia. Incoming students are encouraged to seek out options housed within the ASIA category as well as in departments such as English, Foreign Languages—offering Chinese language (CHIN) as well as literature in translation (LITR) courses—History, Philosophy, Politics and International Relations, and Religious Studies. A list of courses regularly serving the Asian Studies program may be found in the *Catalog*. Students may also wish to keep an eye out for topical offerings with a regional focus on Asia that, with the chair's approval, may be retroactively counted toward the minor.

Students interested in the language concentration (see the *Catalog* for descriptions of the two possible minor concentrations), or who might wish to develop an Asia-focused interdisciplinary major, should seriously consider pursuing the elementary Chinese language sequence (CHIN 110 and 120) or, for those with background, following the language placement procedures for Chinese outlined by the Foreign Language department.

Those with a special interest in studying a less commonly taught language or a particular region of Asia in depth are encouraged to contact affiliated faculty members or the program

chair. Additionally, it is sometimes possible for highly motivated first-year students to participate in upper-level seminars; such students should consult with individual instructors prior to registration.

Minor

Language Concentration: Six (6) courses as follows:

- Two courses in an Asian language
 - CHIN 110 *Elementary Chinese I*
 - CHIN 120 *Elementary Chinese II*
 - CHIN 210 *Intermediate Chinese I*
 - CHIN 220 *Intermediate Chinese II*
 - CHIN 300 *Advanced Chinese*
 - or
 - the equivalent of two semesters of Asian language study approved by the program chair
- Two courses in the humanities
 - ASIA 190/LITR 190 *Chinese Martial Arts Novels and Films*
 - ASIA 191 *East Asian Popular Culture*
 - ASIA 320 *Indian Culture Through Fiction*
 - CHIN 351/ASIA 251 *Survey of Chinese Literature, Part I (to 1911)*
 - CHIN 352/ASIA 252 *Survey of Chinese Literature, Part II (1911-present)*
 - CHIN 395/ASIA 295 *Topics in Chinese Literature*
 - ENGL 397 *Vietnam in the Literary Imagination*
 - PHIL 250 *Philosophies of India*
 - PHIL 260 *Philosophies of China and Japan*
 - RELI 111 *Asian Religions: An Introduction*
 - RELI 222 *Chinese Religions*
 - RELI 223 *An Introduction to Hinduism*
 - RELI 225 *An Introduction to Buddhism*
 - RELI 238 *Tibetan Buddhism*
 - RELI 290 *Issues in Religious Studies**
 - RELI 334 *Buddhist Saints*
 - RELI 337 *Contemporary Buddhist Thought*
 - RELI 410 *Topics in Asian Religion*
- Two courses in the social sciences
 - ANTH 490 *Special Topics**
 - ASIA 100 *Survey of Asian Cultures and Ethnicities*
 - ASIA 205/ANTH 205 *Food, Nutrition, and Health in Asia*
 - ASIA 305/ANTH 305 *Asian Medical Traditions*
 - HIST 160 *East Asia to 1600*
 - HIST 244 *Modern China*

HIST 246 *Modern Japan*
HIST 292 *The Two Koreas*
HIST 293 *Korea: The Forgotten War*
HIST 285 *East Asia and the United States*
HIST 291 *Japan and World War II in Asia*
HIST 306 *Crime and Punishment in East Asia*
HIST 307 *Gender and Society in East Asia*
HIST 360 *Vietnam & the 1960s*
POLI 440 *Special Topics**

*Must have a substantive and geographic focus on one or more countries of Asia, or the region as a whole, and be approved by the chair of the Asian Studies program.

At least two courses must be taken at the 300-level or above.

Students pursuing additional coursework while studying abroad or at other institutions, if applicable and approved by the program chair, may substitute up to two non-language courses to fulfill the requirements for either of the minor concentrations.

Non-language Concentration: Six (6) courses distributed as follows:

- Three (3) courses in the humanities listed in the language concentration
- Three (3) courses in the social sciences listed in the language concentration

At least three (3) courses must be taken at the 300-level or above.

In both concentrations, religious studies majors and history majors may double-count only one course from their major toward the Asian Studies minor.

BIOCHEMISTRY/MOLECULAR BIOLOGY

Successful completion of the Biochemistry/Molecular Biology (BCMB) major will require careful planning and adherence to a relatively tight schedule of courses. BCMB majors may need to take 3 science/mathematics courses in a semester. Furthermore, 100- and 200-level courses offered by a given department are sequenced and must be taken in numerical order. For example, CHEM 110 *General Chemistry I* must be taken before CHEM 120 *General Chemistry II*, but students may take BIOL 150 *Cell Biology* prior to taking CHEM 120 *General Chemistry II*.

Students planning a BCMB major should take the General Chemistry sequence (CHEM 110 and 120) their first year. They should also take BIOL 150 *Cell Biology* and/or the appropriate mathematics course during the first year.

Other students who wish to explore the BCMB major but who also want or need more time to check out other majors should take CHEM 110 and 120, and either BIOL 150 *Cell Biology* or the appropriate mathematics course their first year. Although it would be possible to com-

plete the major if CHEM 110 and 120 are not taken until the second year, this would require students to take an uncomfortably heavy load of science courses during subsequent years.

Major

Fourteen courses distributed as follows:

- BIOL 150 *Cell Biology* (introductory-level course)
- BIOL 250 *Genetics*
- BIOL 355 *Advanced Cell Biology*
- CHEM 110 *General Chemistry I* and CHEM 120 *General Chemistry II*
or
CHEM 150 *Accelerated General Chemistry*
- CHEM 240 *Organic Chemistry I*
- CHEM 250 *Organic Chemistry II*
- CHEM 320 *Thermodynamics and Chemical Kinetics*
- CHEM 330 *Biological Chemistry*
- CHEM 335 *Advanced Biological Chemistry*
- MATH 120 *Calculus I*
- MATH 140 *Calculus II*
- PHYS 210 *General Physics I*
or
PHYS 230 *General Physics I (Calculus-based)*
or
PHYS 235 *General Physics I (Workshop)*
- one elective from
 - BIOL 310 *Developmental Biology*
 - BIOL 320 *Animal Physiology*
 - BIOL 325 *Cellular and Molecular Neuroscience*
 - BIOL 340 *Microbiology*
 - BIOL 370 *Plant Physiology*
 - BIOL 430 *Immunology*
 - BIOL 460 *Evolution*
 - BIOL 465 *Molecular Evolution and Bioinformatics*
 - BIOL 470 *Advanced Genetics*

BCMB majors are required to complete an independent research project.

BCMB majors may not earn a minor or second major in either chemistry or biology.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience will consist of a comprehensive examination (the Biochemistry, Cell and Molecular Biology Graduate Record Examination), the submission of a research paper based on the student's research, and participation in the BCMB Senior Seminar

course which includes an oral presentation of the student's research. The research paper and oral presentation will be assessed by members of the BCMB faculty.

Minor

There are currently no plans for a BCMB minor. Students wishing to emphasize this material, but not as a major, should select their minor from either Chemistry or Biology.

COURSE PLANNING:

FIRST-YEAR PLANNING: Successful completion of the Biochemistry and Molecular Biology (BCMB) major will require careful planning and adherence to a relatively tight schedule of courses. BCMB majors may need to take 3 science/mathematics courses in a semester. Furthermore, 100- and 200-level courses offered by a given department are sequenced and must be taken in numerical order. For example, CHEM 110 *General Chemistry I* must be taken before CHEM 120 *General Chemistry II*, but students may take BIOL 150 *Cell Biology* prior to taking CHEM 120 *General Chemistry II*.

- a. Students planning a BCMB major should take the General Chemistry sequence (CHEM 110 and 120) their first year. They should also take BIOL 150 *Cell Biology* and/or the appropriate Mathematics course during the first year.
- b. Other students who wish to explore the BCMB major but who also want or need more time to check out other majors should take CHEM 110 and 120, and either Cell Biology or the appropriate Mathematics course their first year. Although it would be possible to complete the major if CHEM 110 and 120 are not taken until the second year, this would require students to take an uncomfortably heavy load of science courses during subsequent years.

UPPER-LEVEL PLANNING: Second year students should take CHEM 240 *Organic Chemistry I* and CHEM 250 *Organic Chemistry II*, finish the Mathematics requirement if not completed the first year and take the next sequential Biology course (BIOL 250 *Genetics*). Whether to take more biology or chemistry first will depend on the interests of the student and the type of research they hope to undertake in the future. Third year students should take CHEM 330 *Biological Chemistry* and CHEM 335 *Advanced Biological Chemistry*. The BCMB faculty recommends taking BIOL 355 *Advanced Cell Biology* in the third year in preparation for taking the BCMB GRE that is part of the Senior Capstone Experience.

- a. Undergraduate Research is a key component of the BCMB major. All students must earn research credit for work done during one summer in a full time research project, or for work done part-time during two semesters during the academic year. Students should plan on being involved in research as early and as often as possible. Second-year students will generally not be ready to earn research credit, but they can volunteer to help in projects and start preparing for undertaking their own projects. Ideally, by the end of their junior year, students will have been involved in research in some way. All research for credit must be approved by the BCMB core faculty prior to the start of the research project.
- b. Students should also begin planning as early as possible for the type of graduate or professional programs they wish to enter after graduating from Hendrix because

some programs will have prerequisites beyond those courses which make up the major. Early planning is also crucial for students who plan to study abroad. Due to the highly structured nature of the major, and the time required to complete the Research requirement, students will need to be well ahead of schedule prior to the study abroad experience, or attend a foreign school which allows them to take courses that will count towards the major.

- c. BCMB Journal Club. All BCMB majors are strongly encouraged to attend the BCMB Journal Club. This group meets on a weekly basis to discuss current research in the field. We feel that attendance and participation demonstrates genuine interest in the field, provides important insight into how modern research is done, and helps keep faculty and students abreast of the rapid developments in this dynamic discipline.

Sample four-year course sequence:

| | FALL | SPRING |
|-------------|--|--|
| First Year | TEC and Explorations CHEM 110 or 150 <i>Gen Chemistry I</i> Math 130 <i>Calculus I</i> | BIOL 150 <i>Cell Biology</i> CHEM 120 <i>General Chemistry II*</i> MATH 140 <i>Calculus II</i> |
| Second Year | CHEM 240 <i>Organic Chemistry I</i> PHYS 210, 230, or 235 <i>Gen Physics I</i> | CHEM 250 <i>Organic Chemistry II</i> (PHYS 220, 240, or 245) Optional BIOL 250 <i>Genetics</i> |
| Third Year | CHEM 330 <i>Biological Chemistry</i> BIOL 355 <i>Advanced Cell Biology</i> | CHEM 335 <i>Advanced Biological Chemistry</i> |
| | Summer Research | |
| Fourth Year | BCMB Elective | CHEM 320 <i>Physical Chemistry</i> |
| | Take BCMB GRE | BIOL 497 <i>BCMB Senior Seminar</i> |

Sample three-year course sequence:

| | FALL | SPRING |
|-------------|--|---|
| First Year | TEC and Explorations | |
| Second Year | CHEM 110 or 150 <i>Gen Chemistry I</i> PHYS 210 or 230 <i>General Physics I</i> BIOL 150 <i>Cell Biology</i> | CHEM 120 <i>General Chemistry I</i> (PHYS 220 or 240: <i>Gen Physics</i>) Optional BIOL 250 <i>Genetics</i> |
| Third Year | CHEM 240 <i>Organic Chemistry</i> MATH 130 <i>Calculus I</i> BIOL 355 <i>Advanced Cell Biology</i> | CHEM 250 <i>Organic Chemistry II</i> MATH 140 <i>Calculus II</i> |
| | Summer Research | |
| Fourth Year | CHEM 330 <i>Biological Chemistry</i> BCMB Elective | CHEM 335 <i>Advanced Biological Chemistry</i> CHEM 320 <i>Physical Chemistry</i> |
| | Take BCMB GRE | BIOL 497 <i>BCMB Senior Seminar</i> |

BIOLOGY

Students interested in pre-medical or other health-related fields requiring MCAT, DAT, VAT, or similar exams in the spring term of their junior year need to take 11-12 science/math courses in six semesters (outlined below). To accomplish this goal, these students (and prospective majors who wish a fast track or who aim toward graduate school) generally need to start at least two science sequences and to take three or four science courses in their first year of college work:

- BIOL 150 *Cell Biology*
- then BIOL 190 *Botany*
- and
- CHEM 110 *General Chemistry I*, then CHEM 120 *General Chemistry II*
- or
- CHEM 150 *Accelerated General Chemistry*

Other students considering a major in biology should take at least BIOL 150 *Cell Biology* during their first year.

Major

Students majoring in Biology must take BIOL 150 *Cell Biology*, BIOL 190 *Botany*, BIOL 220 *Zoology*, BIOL 221 *Biological Communication*, BIOL 222 *Biometry*, BIOL 250 *Genetics*, BIOL 365 *Ecology and Evolution*, BIOL 497 *Biology Seminar*, two laboratory courses in chemistry, and four biology elective courses at the 300 or 400 level, one of which may be CHEM 330 *Biological Chemistry*.

Minor

Students who wish to earn a minor in biology must complete any five biology courses numbered 150 or above, two of which must be at the 300 or 400 level and may include CHEM 330 *Biological Chemistry*. The Biology Department highly recommends that students pursuing a biology minor also take at least CHEM 110 *General Chemistry I* and CHEM 120 *General Chemistry II*.

COURSE PLANNING:

- I. FIRST-YEAR PLANNING:** Because a biology major needs a total of about 16 courses by graduation (an average of 4/year) in order to be well-prepared for graduate and professional school programs or for employment, the minimum science load suggested for the first year is three science/math courses. As shown below, it is possible to start the biology and chemistry sequences in the sophomore year, but this requires taking more lab courses in the junior and senior years. It is recommended that any

science sequence designated I and II be taken sequentially within one academic year.

A. First-year students who are prospective majors should take in this order:

BIOL 150 *Cell Biology*

BIOL 190 *Botany*

It is strongly recommended that these students also take CHEM 110 *General Chemistry I* and CHEM 120 *General Chemistry II* in their first year and MATH 120 *Functions and Models* or MATH 130 *Calculus I*, based on the recommendation of the Math Department. Five science/math courses in a given year should be considered a maximal science load. Students experiencing difficulty in the first semester should reconsider their load before starting the next semester.

B. Other first-year students interested in biology as a possible major, but wanting or needing a slower start should take at least BIOL 150 *Cell Biology*. It is highly recommended that these students consider taking either *General Chemistry I* and *II* or a mathematics course (*Functions and Models* or *Calculus I*) during this first year.

II. UPPER-LEVEL PLANNING: Though not required, all biology majors should take mathematics through *Calculus I* (preferably through *Calculus II*), Chemistry through *Organic II* (preferably through *Biological Chemistry*), and physics through *General Physics II* in order to keep graduate school, professional school, and employment options open. The Biology “core” curriculum is designed so that the five required courses (*Cell Biology*, *Botany*, *Zoology*, *Genetics*, and *Ecology and Evolution*) will provide an overview of biology allowing a student to then “specialize” by choosing four electives that best fit their needs.

All prospective and declared biology majors need to take, in their sophomore year, the non-credit seminars, BIOL 221 *Biological Communication* and BIOL 222 *Biometry*.

We encourage students to plan early if they want to study abroad or perform independent research. This planning will often entail increasing science course loads to ensure adequate course background for research or to compensate for the fact that science courses may not be available in study abroad programs.

We advise students taking courses off-campus to consult a biology faculty member about the selection of those courses. We encourage students to attend Hendrix Biological Society meetings, departmental informational meetings, departmental seminars and other special events.

Students planning to certify to teach biology should contact their major advisors and the Education Department for a list of courses required within the major and by the professional societies for licensure.

The following are general guidelines for courses required by many graduate and professional schools. It is recommended that students refer often to this *Guide to Academic Planning* and

work closely with their academic advisors to ensure adequate course preparation for specific post-graduate programs.

PREPARATION FOR MEDICAL SCHOOL, DENTAL SCHOOL, AND VETERINARY MEDICINE IS BEST ACHIEVED BY:

1. Completing at least BIOL 150, BIOL 250 and BIOL 320;
2. Two courses in General Chemistry, two courses in Organic Chemistry, and one course in Biochemistry;
3. At least one course in Mathematics;
4. At least one course in Statistics (preferably from the psychology department);
5. Two courses in Physics;
6. Two to three courses in English; and
7. At least two Social Science courses.

PREPARATION FOR GRADUATE SCHOOL IS BEST ACHIEVED BY:

1. Two years of Biology;
 2. Two courses in General Chemistry and two courses in Organic Chemistry;
 3. Two courses in Physics;
 4. At least one course in Calculus; and
 5. At least one course in Statistics (preferably from the psychology department).
- Independent research experience is highly desirable and will be expected by selective graduate programs. Some graduate schools also require basic programming skills and, occasionally, a reading knowledge in at least one foreign language.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the biology major consists of (1) a comprehensive examination and (2) participation in BIOL 497 *Biology Seminar*. The comprehensive examination is the standardized Major Field Test (MFT), or the Graduate Record Examination (GRE) in biology. BIOL 497 *Senior Seminar* is a one semester course that meets weekly. During the course each senior presents a formal seminar. The grade for the Senior Capstone Experience is based on both the standardized test score and the *Biology Seminar* grade.

Typical four-year course sequence (suitable for taking the MCAT or other professional exam during the Junior year):

| | FALL | SPRING |
|-------------|--|---|
| First Year | BIOL 150 <i>Cell Biology</i> CHEM 110 <i>General Chemistry I*</i> Elective Elective | BIOL 190 <i>Botany</i> CHEM 120 <i>General Chemistry II*</i> Elective Elective |
| Second Year | BIOL 220 <i>Zoology</i> BIOL 221 <i>Biological Communication</i> Elective Elective | BIOL 250 <i>Genetics</i> BIOL 222 <i>Biometry</i> Elective Elective |

| | | |
|--------------------|---------------------------------------|--------------------------------|
| Third Year | Elective | Elective |
| | BIOL 365 <i>Ecology and Evolution</i> | Major elective 2 |
| | Major elective 1 | Elective |
| | Elective | Elective |
| Fourth Year | Elective | Elective |
| | Major elective 3 | BIOL 497 <i>Senior Seminar</i> |
| | Elective | Major elective 4 |
| | Elective | Elective |
| | Elective | Elective |

Typical three-year course sequence:

| | | |
|--------------------|--|--|
| First Year | FALL | SPRING |
| | Elective | Elective |
| | Elective | Elective |
| | Elective | Elective |
| Second Year | Elective | Elective |
| | BIOL 150 <i>Cell Biology</i> | BIOL 190 <i>Botany</i> |
| | BIOL 221 <i>Biological Communication</i> | BIOL 222 <i>Biometry</i> |
| | CHEM 110 <i>General Chemistry I</i> * | CHEM 120 <i>General Chemistry II</i> * |
| Third Year | Elective | Elective |
| | Elective | Elective |
| | BIOL 220 <i>Zoology</i> | BIOL 250 <i>Genetics</i> or Major elective |
| | BIOL 250 <i>Genetics</i> or Major elective 1 | Major elective 2 |
| Fourth Year | Elective | Elective |
| | Elective | Elective |
| | BIOL 365 <i>Ecology and Evolution</i> | BIOL 497 <i>Senior Seminar</i> |
| | Major elective 3 | Major elective 4 |
| | Elective | Elective |
| | Elective | Elective |

*Taking CHEM 150 *Accelerated General Chemistry* in the fall semester can substitute for the two course CHEM 110 + CHEM 120 sequence.

CHEMICAL PHYSICS

The Chemical Physics Major is designed to provide the students with a strong background in theoretical physical science and mathematics. It involves interpretation of spectra and provides an understanding of modern models of structure, both necessary for understanding matter at the atomic and molecular level. Majors also study a variety of experimental techniques and become proficient in the communication of scientific information.

The Chemical Physics major is particularly effective in preparing students for graduate study and careers in engineering, research, and teaching.

There is no Chemical Physics minor. Students receiving the Chemical Physics Major cannot receive a minor or a second major in Physics or Chemistry.

Major

Mathematics (3 courses):

- MATH 130 *Calculus I*
- MATH 140 *Calculus II*
- MATH 260 *Differential Equations*

Physics (4 courses):

- PHYS 230 *General Physics I* (Calculus-based)
or
PHYS 235 *General Physics I* (Workshop)
- PHYS 240 *General Physics II* (Calculus-based)
or
PHYS 245 *General Physics II* (Workshop)
- PHYS 305 *Vibrations and Waves*
- PHYS 330 *Quantum Mechanics*

Chemistry (3 or 4 courses):

- CHEM 110 and 120 *General Chemistry I and II*
or
CHEM 150 *Accelerated General Chemistry*
- CHEM 240 *Organic Chemistry I*
- CHEM 310 *Physical Chemistry: Quantum Mechanics and Spectroscopy*

Electives (3 courses):

- CHEM 320 *Physical Chemistry: Thermodynamics and Chemical Kinetics*
or
PHYS 370 *Thermal Physics*
- Two courses from:
 - CHEM 340 *Advanced Inorganic Chemistry*
 - CHEM 350 *Advanced Analytical Chemistry*
 - PHYS 320 *Electrodynamics*
 - PHYS 340 *Electronics*

COURSE PLANNING:

Successful completion of the requirements for the Chemical Physics Major will require careful planning and conscientious adherence to a rigorous schedule. Many courses are sequential and have prerequisites, sometimes from different departments, and must be scheduled accordingly. Postponing a course could preclude finishing the required curriculum in four years.

First- and second-year planning: CHEM 110 and 120 *General Chemistry I and II* OR CHEM 150 *Accelerated General Chemistry* should be taken the first year. These are prerequisites for CHEM 240 *Organic Chemistry I* which should be taken the second year. MATH 130 and 140 *Calculus I and II* should also be taken the first year in order to be prepared for PHYS 230/235 and 240/245 *Physics I and II* (calculus-based or Workshop) in year two. MATH 260 *Differential Equations* is also strongly recommended for the second year. In the third year, CHEM 310 *Physical Chemistry: Quantum Mechanics and Spectroscopy*, PHYS 305 *Vibrations and Waves*, as well as two of the elective courses should be taken.

This will leave PHYS 330 *Quantum Mechanics* and two more electives, as well as the Se-

nior Capstone Experience for the fourth year. The Physics Senior Capstone consists of a comprehensive examination. The Chemistry Senior Capstone is also a two-part requirement: a comprehensive standardized chemistry exam, and an oral presentation of a literature-based research paper written under the direct supervision of a faculty member.

SUMMARY

Year 1 (3 or 4 courses): CHEM 110 and CHEM 120 (OR CHEM 150), MATH 130, MATH 140

Year 2 (4 courses): PHYS 230 or 235, PHYS 240 or 245, CHEM 240, MATH 260

Year 3 (3 or 4 courses): CHEM 310, PHYS 305, one or two electives (CHEM 320 or PHYS 370 and possibly one other course),

Year 4 (2 or 3 courses): PHYS 330, one or two electives, Senior Capstone Experience

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience in either chemistry or physics is required.

CHEMISTRY

The course of study in the Chemistry Department is designed to help students become effective scientists: creators of new knowledge, rather than just passive acceptors of information. Chemistry majors leave Hendrix prepared to begin technical careers or to continue on to the profession of chemistry through graduate study. Chemistry is a typical gateway major to the fields of medicine, dentistry, pharmacy, veterinary medicine, environmental science, and engineering. Courses and laboratories are designed to enable students to learn science by doing real science, including opportunities for team projects, independent learning, peer teaching, scientific writing, and hands-on laboratory activities without prescribed results. In keeping with this philosophy, all Chemistry majors are encouraged to engage in original laboratory research while at Hendrix.

Major

Requirements for the major are:

- CHEM 110 *General Chemistry I: Chemical Structure and Properties* and CHEM 120 *General Chemistry II: Chemical Analysis and Reactivity*

or

- CHEM 150 *Accelerated General Chemistry*
 - CHEM 240 *Organic Chemistry I*
 - CHEM 250 *Organic Chemistry II*
 - CHEM 280 *Environmental Analysis*
- or
- BIOL 150 *Cell Biology*
 - CHEM 310 *Physical Chemistry: Quantum Mechanics and Spectroscopy*
 - CHEM 320 *Physical Chemistry: Thermodynamics and Chemical Kinetics*
 - CHEM 340 *Advanced Inorganic Chemistry*

- One course from
CHEM 330 *Biological Chemistry*

- CHEM 350 *Advanced Analytical Chemistry*, or
- CHEM 410 *Advanced Physical Chemistry*
- CHEM ATC *Advanced Techniques in Experimental Chemistry* (two semesters)
- CHEM 497 *Seminar* (two semesters)
- MATH 130 and 140 *Calculus I and II*
- One course from
 - PHYS 210 *General Physics I*
 - PHYS 230 *General Physics I* (Calculus based) (recommended)
 - PHYS 235 *General Physics I* (Workshop) (recommended)
- One course from
 - PHYS 220 *General Physics II*
 - PHYS 240 *General Physics II* (Calculus based) (recommended)
 - PHYS 245 *General Physics II* (Workshop) (recommended)

Requirements for the American Chemical Society Certified Degree in Chemistry are:

- Requirements for the Chemistry Major as well as
- CHEM 280 *Environmental Analysis*
- CHEM 330 *Biological Chemistry*
- CHEM 450 *Directed Research*
- one additional course from
 - CHEM 335 *Advanced Biological Chemistry*
 - CHEM 350 *Advanced Analytical Chemistry*
 - CHEM 410 *Advanced Physical Chemistry*

Minor

Requirements for the Chemistry minor are 6 courses distributed as follows:

- CHEM 110 and 120 *General Chemistry I and II*
- OR**
- CHEM 150 *Accelerated General Chemistry*
 - CHEM 240 *Organic Chemistry I*
 - Additional courses in Chemistry numbered above 240 or a total of 6 Chemistry courses.

COURSE PLANNING:

- CHEM 110 and 120 (or CHEM 150) should be taken in the first year, although these courses can be taken in the second year and still allow time to complete the major.
- Calculus I and II should be completed during the first year, and Physics I and II during the second year under normal circumstances.
- CHEM 240 and 250 are usually taken in the sophomore year.
- CHEM 310 and 320 are usually taken in the junior year along with the ATEC laboratory (two afternoons per week, both semesters). Prerequisites are CHEM 250 *Organic Chemistry II*, MATH 140 *Calculus II*, and *General Physics II* (PHYS 240 or 245 is recommended over PHYS 220).

- CHEM 340 is usually taken in the senior year.
- One of the following courses is also required: CHEM 330 *Biological Chemistry*, CHEM 350 *Advanced Analytical Chemistry*, CHEM 410 *Advanced Physical Chemistry*.
- Chemistry majors must take CHEM 280 *Environmental Analysis* or BIOL 150 *Cell Biology*. Pre-health science students will need more biology courses, and should confer with their advisor or an appropriate faculty member for ideas on proper courses and their sequencing.

Four-Year Course Schedule for the Chemistry Major

A typical sequence of required courses for a four-year chemistry major appears below. A number of variations are possible. CHEM 280 may be taken any time after CHEM 120 or 150, but preferably no later than the third year; students who choose to take BIOL 150 instead should take it during the first two years.

| | FALL | SPRING |
|--------------------|--|--|
| First Year | CHEM 110, MATH 130 or CHEM 150, MATH 130 | CHEM 120, MATH 140 or CHEM 280, MATH 140 |
| Second Year | CHEM 240, PHYS 210, 230, or 235 | CHEM 250, PHYS 220, 240, or 245 |
| Third Year | CHEM 310 with CHEM ATC, CHEM 330 | CHEM 320 with CHEM ATC, CHEM 350 |
| Fourth Year | CHEM 340, CHEM 497 | CHEM 497 |

Compressed Three-Year Course Schedule for the Chemistry Major

One possible sequence of required courses for a three-year chemistry major appears below. This sequence is common for students starting the major in their second year or interrupting their Hendrix studies to study abroad. A number of variations are possible. CHEM 280 *Environmental Analysis* should be taken during the second or third year; students who choose to take BIOL 150 *Cell Biology* instead should take that sometime during the first two years.

| | FALL | SPRING |
|--------------------|---|---|
| First Year | CHEM 110, MATH 130 or CHEM 150, MATH 130 | CHEM 120, MATH 140 or CHEM 280, MATH 140 |
| Second Year | CHEM 240, PHYS 210, 230, or 235 | CHEM 250, PHYS 220, 240, or 245 |
| Third Year | CHEM 310 with CHEM ATC, CHEM 330 CHEM 340, CHEM 497 | CHEM 320 with CHEM ATC, CHEM 350 CHEM 497 |

Four-Year Course Schedule for the American Chemical Society Certified Degree

A typical sequence of required courses for a four-year chemistry major certified by the American Chemical Society appears below. There is flexibility in the placement of some courses so a number of variations are possible.

Along with the required coursework laid out below, students must choose one additional advanced course:

CHEM 335 *Advanced Biological Chemistry*
CHEM 350 *Advanced Analytical Chemistry*
CHEM 410 *Advanced Physical Chemistry*

| | FALL | SPRING |
|-------------|--|--|
| First Year | CHEM 110, MATH 130 or CHEM 150, MATH 130 | CHEM 120, MATH 140 or CHEM 280, MATH 140 |
| Second Year | CHEM 240, PHYS 210, 230, or 235 | CHEM 250, PHYS 220, 240, or 245 CHEM 280 |
| Third Year | CHEM 310 with CHEM ATC, CHEM 330 | CHEM 320 with CHEM ATC, |
| Fourth Year | CHEM 340, CHEM 497 | CHEM 450, CHEM 497 |

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience is intended to consolidate the student's development into an effective scientist through integration of chemistry knowledge and practice in finding, evaluating, and synthesizing information into new understanding. The Chemistry Capstone consists of two parts. The first part is a comprehensive standardized chemistry exam. The second part is the composition of a literature-based research paper written under the direction of a faculty member, and delivery of an oral presentation based on that paper. The grade for the Senior Capstone Experience is the average of grades based on the two parts of the experience.

CLASSICS

All 200-level CLAS courses are appropriate for first-year students and require no knowledge of Latin or Greek. The 100-level beginning sequences in Latin and Greek may also be taken in the first year. For more information on the language courses, see Foreign Languages.

Major

13 courses distributed as follows:

- LATI 110 *Fundamentals of Latin I*
and
LATI 120 *Fundamentals of Latin II*
- GREE 110 *Fundamentals of Ancient Greek I*
and
GREE 120 *Fundamentals of Ancient Greek II*
- LATI 210 *Readings in Latin*

or

GREE 210 *Readings in Greek*

- Two courses in Latin and/or Greek at the 300 level (may be both in Latin, both in Greek, or a combination).
- LATI 410 *Advanced Readings and Research in Latin Literature*

or

GREE 410 *Advanced Readings and Research in Greek Literature*

- CLAS 200 *Classical Mythology*
- CLAS/HIST 301 *Greek Civilization*
- CLAS/HIST 302 *Roman Civilization*
- Two other courses from offerings in Latin, Greek, and/or Classics (including courses cross-listed with Classics).

Minor

6 courses distributed as follows:

- LATI 110 *Fundamentals of Latin I*
and

LATI 120 *Fundamentals of Latin II*

or

GREE 110 *Fundamentals of Ancient Greek I*
and

GREE 120 *Fundamentals of Ancient Greek II*

- One course in Latin or Greek at the 200 level or above.
- Three remaining courses chosen from offerings in Latin, Greek, and/or Classics (including courses cross-listed with Classics).

COURSE PLANNING:

Students interested in majoring in Classics should consider taking LATI 110 and LATI 120 during their first year at Hendrix, although it is also possible to start the Classics major in the second year. GREE 110 and GREE 120 are not offered every year; students hoping to major in Classics or otherwise wishing to take Greek should consult with the Classics faculty about the next offering of the Greek basic sequence. Students interested in graduate coursework in Classics should plan to take as many 300-level language courses as possible.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the Classics major is composed of two parts: The completion of LATI 410 *Advanced Readings and Research in Latin Literature* or GREEK 410 *Advanced Readings and Research in Greek Literature*, and the passing of a written exam (with a grade of “C” or higher) based on key concepts in the field.

COMPUTER SCIENCE

There are two majors in the Department of Mathematics and Computer Science, a major in mathematics and a major in computer science. The information in this section refers only to the computer science major and minor.

Students interested in computing –whether or not they plan to major/minor in computer science –are invited to take either of two introductory courses.

CSCI 135 *Robotics Explorations Studio (NS-L)*

CSCI 150 *Foundations of Computer Science I (QS, NS)*

Neither of these courses has prerequisites. CSCI 135 will not count toward computer science major or minor requirements.

Students interested in majoring in computer science should complete CSCI 150 *Foundations of Computer Science* and MATH 130 *Calculus I* in their first year. Completing CSCI 151 *Data Structures and Object-Oriented Development* in the first year is strongly encouraged. Completing MATH 240 *Discrete Mathematics* in the Spring semester of the first year is helpful, but not absolutely necessary.

Students scoring 4 or 5 on the AP Computer Science Exam (A) and those scoring 3 or higher on the AP Computer Science Exam (AB) will receive credit for CSCI 150. Students scoring 4 or 5 on the AP Computer Science Exam (AB) will receive credit for both CSCI 150 and CSCI 151.

Major

The major in computer science consists of 12 courses distributed as follows:

- CSCI 150 *Foundations of Computer Science*
- CSCI 151 *Data Structures and Object-Oriented Development*
- MATH 130 *Calculus I*
- MATH 240 *Discrete Mathematics*
- CSCI 230 *Computing Systems Organization*
- CSCI 250 *Scalable Software Design and Development*
- CSCI 280 *Algorithms and Problem-Solving Paradigms*
- CSCI 340 *Database and Web Systems*

or

- CSCI 420 *Operating Systems and Concurrent Computing*
- One course chosen from the following:
 - CSCI 380 *Theory of Computation*
 - CSCI 385 *Scientific Computing*
 - MATH 340 *Combinatorics*
- CSCI 410 *Technical Communication and Analysis*
- Two additional CSCI courses numbered 300 or above

Each senior computer science major must also enroll in the year-long non-credit CSCI 497 *Senior Seminar*

Minor

The minor in computer science consists of 6 courses

- MATH 130 *Calculus I*
 - CSCI 150 *Foundations of Computer Science*
 - CSCI 151 *Data Structures and Object-Oriented Development*
 - any CSCI course numbered 200 or above
- or
- MATH 240 *Discrete Mathematics*
 - any additional CSCI course numbered 200 or above
 - any additional CSCI course numbered 300 or above

COURSE PLANNING:

Students not planning to major or minor in computer science are welcome and encouraged to take CSCI 150 to learn about computer programming. A solid foundation in high school mathematics is advisable.

Students planning to minor in computer science should complete CSCI 150 no later than the fall semester of their third year, with CSCI 151 and MATH 130 completed by the spring semester of that same year. This combination enables a reasonable selection of upper-level electives in the following year.

Students considering a major in computer science should complete CSCI 150 and MATH 130 by the end of their first year; completing CSCI 151 also in the first year is strongly recommended. Completing MATH 240 in the Spring semester of the first year is helpful, but not absolutely necessary. Though starting with CSCI 150 in the second year is possible, it can make completing the major within four years more challenging.

In the second year, students planning to major in computer science should complete CSCI 230 in the fall semester, also taking CSCI 280 if the prerequisites have been met. If MATH 240 has not already been completed, it should be taken in the Spring semester. Those who have not yet taken CSCI 151 should complete that course in the spring semester; those who have already completed it should take CSCI 250 in the spring semester. Students may also consider enrolling in a 300-level spring semester elective for which they have completed the prerequisites.

Four-year course schedule for the Computer Science major:

A typical sequence of courses for a four-year computer science major appears below. Many variations are possible. What is outlined below maximizes selection of electives in the last two years. Note that most courses at or above the 300-level are offered in alternate years.

| | FALL | SPRING |
|-------------|---------------------------|-----------------------------|
| First Year | CSCI 150 MATH 130 | CSCI 151 MATH 240 |
| Second Year | CSCI 230 CSCI 280 | CSCI 250 CSCI 330 or 420 |
| Third Year | CSCI elective | CSCI elective |
| Fourth Year | CSCI 497 CSCI elective | CSCI 410 |

Modified four-year course schedule for the Computer Science major:

For students who are considering a computer science major as one option among several, the following schedule represents a typical option. It allows more flexibility in the first year at the price of a potential reduction in elective choices later on. Several intermediate variations between these two are also possible.

| | FALL | SPRING |
|-------------|---------------------------|-----------------------------|
| First Year | CSCI 150 MATH 130 | |
| Second Year | CSCI 230 | CSCI 151 MATH 240 |
| Third Year | CSCI 280 CSCI elective | CSCI 250 MATH 330 or 420 |
| Fourth Year | CSCI 497 CSCI elective | CSCI 410 CSCI elective |

Three-year course schedule for the Computer Science major:

| | FALL | SPRING |
|-------------|--|-----------------------------|
| First Year | CSCI 150 MATH 130 | CSCI 151 MATH 240 |
| Second Year | CSCI 230 CSCI 280 | CSCI 250 CSCI 330 OR 420 |
| Third Year | CSCI elective CSCI elective CSCI 497 | CSCI elective CSCI 410 |

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for majors in computer science consists of a year-long undergraduate research project and active participation in CSCI 497 *Senior Seminar*.

ECONOMICS AND BUSINESS

Students interested in accounting, economics or business should take ECON 100 *Survey of Economic Issues* or BUSI 100 *Contemporary Issues in Business and Entrepreneurship*. They also are encouraged to take either MATH 120 *Functions and Models* or MATH 130 *Calculus I* during their freshman year.

Major courses do not begin until the sophomore year; however, the following courses may be taken with consent of instructor: BUSI 200 and BUSI 210 *Principles of Accounting I and II*, ECON 200 *Microeconomic Theory*, or ECON 210 *Macroeconomic Theory*.

Major

The Department of Economics and Business offers:

1. A major in Economics and Business
2. A major in Economics
3. A major in Accounting
4. A minor in Business
5. A minor in Economics
6. A minor in Accounting
7. A minor in International Business
8. A Master of Arts in Accounting

Students are not allowed to earn a double major solely in the Department. Students who major in Economics and Business, Economics, or Accounting may not minor in Business, Economics, or Accounting, but may minor in International Business. If a student majoring in the Department also chooses to minor in International Business, that student may not double count courses in the final two bullets of the International Business minor for satisfaction of major requirements.

Course requirements for each major and minor are as follows:

1) MAJOR IN ECONOMICS AND BUSINESS:

- BUSI 200 *Principles of Accounting I*
- BUSI 210 *Principles of Accounting II*
- ECON 200 *Microeconomic Theory*
- ECON 210 *Macroeconomic Theory*
- BUSI 250 *Principles of Statistics*
- BUSI 350 *Business Law*
- MATH 120 *Functions and Models* or higher Math course
- Any two (2) upper-level business courses from the following list:
 - BUSI 300 *Intermediate Accounting I*
 - BUSI 310 *Intermediate Accounting II*
 - BUSI 320 *Federal Tax Accounting*

BUSI 330 *Cost Accounting*
BUSI 370 *Auditing*
BUSI 390 *Accounting Information Systems and Database Management*
BUSI 410 *Advanced Cost Accounting*

- Any three (3) upper-level economics courses from the following list:

ECON 300 *Advanced Microeconomic Theory*
ECON 310 *Advanced Macroeconomic Theory*
ECON 320 *Money, Banking, and Credit*
ECON 340 *Environmental Economics*
ECON 350 *History of Economic Thought*
ECON 360 *International Economics*
ECON 370 *Industrial Organization*
ECON 380 *Public Finance*
ECON 385 *Labor Economics*
ECON 400 *Econometrics and Forecasting*
ECON 410 *Corporate Finance*
ECON 430 *Management Science*
ECON 497 *Economics Research*

2) MAJOR IN ECONOMICS:

- BUSI 200 *Principles of Accounting I*
- BUSI 210 *Principles of Accounting II*
- ECON 200 *Microeconomic Theory*
- ECON 210 *Macroeconomic Theory*
- BUSI 250 *Principles of Statistics*
- MATH 120 *Functions and Models* or higher Math course
- Any two (2) upper-level business courses from the following list:
 - BUSI 300 *Intermediate Accounting I*
 - BUSI 310 *Intermediate Accounting II*
 - BUSI 320 *Federal Tax Accounting*
 - BUSI 330 *Cost Accounting*
 - BUSI 370 *Auditing*
 - BUSI 390 *Accounting Information Systems and Database Management*
 - BUSI 410 *Accounting for Management Planning and Control*
- Any five (5) upper-level economics courses from the following list:
 - ECON 300 *Advanced Microeconomic Theory*
 - ECON 310 *Advanced Macroeconomic Theory*
 - ECON 320 *Money, Banking, and Credit*
 - ECON 340 *Environmental Economics*
 - ECON 350 *History of Economic Thought*
 - ECON 360 *International Economics*
 - ECON 370 *Industrial Organization*
 - ECON 380 *Public Finance*

ECON 385 *Labor Economics*
ECON 400 *Econometrics and Forecasting*
ECON 410 *Corporate Finance*
ECON 430 *Management Science*
ECON 497 *Economics Research*

3) MAJOR IN ACCOUNTING:

- BUSI 200 *Principles of Accounting I*
- BUSI 210 *Principles of Accounting II*
- ECON 200 *Microeconomic Theory*
- ECON 210 *Macroeconomic Theory*
- BUSI 250 *Principles of Statistics*
- MATH 120 *Functions and Models* or its equivalent
- ECON 410 *Corporate Finance*
- Any four (4) upper-level business courses from the following list:
 - BUSI 300 *Intermediate Accounting I*
 - BUSI 310 *Intermediate Accounting II*
 - BUSI 320 *Federal Tax Accounting*
 - BUSI 330 *Cost Accounting*
 - BUSI 370 *Auditing*
 - BUSI 390 *Accounting Information Systems and Database Management*
 - BUSI 410 *Advanced Cost Accounting*
- Any two (2) upper-level economics courses from the following list:
 - ECON 300 *Advanced Microeconomic Theory*
 - ECON 310 *Advanced Macroeconomic Theory*
 - ECON 320 *Money, Banking, and Credit*
 - ECON 340 *Environmental Economics*
 - ECON 350 *History of Economic Thought*
 - ECON 360 *International Economics*
 - ECON 370 *Industrial Organization*
 - ECON 380 *Public Finance*
 - ECON 385 *Labor Economics*
 - ECON 400 *Econometrics and Forecasting*
 - ECON 430 *Management Science*
 - ECON 497 *Economics Research*

4) MINOR IN BUSINESS

- Six (6) courses from the following list:
- BUSI 200 *Principles of Accounting I*
 - BUSI 210 *Principles of Accounting II*
 - MATH 120 *Functions and Models* (or higher Math course)
 - ECON 200 *Microeconomic Theory*
 - BUSI 350 *Business Law*
 - One (1) course from the following:
 - BUSI 290 *International Marketing*

BUSI 300 *Intermediate Accounting I*
BUSI 310 *Intermediate Accounting II*
BUSI 320 *Federal Taxation*
BUSI 330 *Cost Accounting*
BUSI 390 *Accounting Information Systems and Database Management*
ECON 320 *Money, Banking, and Credit*
ECON 340 *Environmental Economics*
ECON 370 *Industrial Organization*
ECON 385 *Labor Economics*
ECON 410 *Corporate Finance*
ECON 430 *Management Science*

5) MINOR IN ECONOMICS

- Any six (6) economics courses from the following list:

ECON 100 *Survey of Economics*
ECON 200 *Microeconomic Theory*
ECON 210 *Macroeconomic Theory*
ECON 300 *Advanced Microeconomic Theory*
ECON 310 *Advanced Macroeconomic Theory*
ECON 320 *Money, Banking, and Credit*
ECON 340 *Environmental Economics*
ECON 350 *History of Economic Thought*
ECON 360 *International Economics*
ECON 370 *Industrial Organization*
ECON 380 *Public Finance*
ECON 385 *Labor Economics*
ECON 390 *Investments*
ECON 400 *Econometrics and Forecasting*
ECON 410 *Corporate Finance*
ECON 430 *Management Science*
ECON 497 *Economics Research*

6) MINOR IN ACCOUNTING

- Any five (5) business courses from the following list:

BUSI 100 *Contemporary Issues in Business and Entrepreneurship*
BUSI 200 *Principles of Accounting I*
BUSI 210 *Principles of Accounting II*
BUSI 300 *Intermediate Accounting I*
BUSI 310 *Intermediate Accounting II*
BUSI 320 *Federal Tax Accounting*
BUSI 330 *Cost Accounting*
BUSI 370 *Auditing*
BUSI 390 *Accounting Information Systems and Database Management*
BUSI 410 *Advanced Cost Accounting*
ECON 200 *Microeconomic Theory*

7) MINOR IN INTERNATIONAL BUSINESS

Six courses distributed as follows:

- ECON 200 *Microeconomic Theory*
 - ECON 210 *Macroeconomic Theory*
 - BUSI 200 *Principles of Accounting I*
 - Any two of the following:
 - BUSI 280 *Global Business*
 - BUSI 290 *International Marketing*
 - ECON 335 *International Finance*
 - ECON 360 *International Economics*
 - One upper-level study abroad economics or business course (excluding those taken in the preceding bulleted section) or one study abroad internship. (An internship may be conducted in an international department of a domestic company.)
- NOTE: Students majoring in the Economics and Business Department may not double count courses in the last two bulleted sections for satisfaction of major requirements.

8) MASTER OF ARTS IN ACCOUNTING

A total of eight (8) courses are required with the following specifications:

- ECON 530 *Management Science*
- ECON 550 *Managerial Economics*
- And six (6) courses from the following list including at least four (4) business courses:
 - BUSI 500 *Taxation for Business Entities*
 - BUSI 510 *Advanced Cost Accounting*
 - BUSI 520 *Seminar in Advanced Accounting*
 - BUSI 530 *Governmental and Non-Profit Accounting*
 - BUSI 540 *Advanced Auditing*
 - BUSI 550 *Business Law*
 - BUSI 590 *Accounting Information Systems and Database Management*
 - BUSI 598/599 *Independent Study or Internship in Accounting*
 - ECON 500 *Econometrics and Forecasting*
 - ECON 570 *Industrial Organization*
 - ECON 590 *Economics Research*
 - ECON 599 *Independent Study in Economics*

No more than two of the eight graduate course requirements may be satisfied by BUSI 598, BUSI 599, and ECON 599.

Prerequisites for admittance into the Masters program include majoring in Accounting, Economics, or Economics and Business and consent of the faculty. Because CPA Exam requirements vary by state, students should be informed of the prerequisites required by the state in which they plan to take the CPA Exam. The State of Arkansas requires 30 semester hours beyond the Hendrix B.A. in order to obtain CPA licensure. This fifth-

year Master of Arts in Accounting program may be used to fulfill this requirement. Interested students should contact the department chair by the end of their sophomore year for details or for information regarding programs offered to qualify to sit for the professional certification examinations.

COURSE PLANNING:

A typical student's schedule (for each of the three majors):

ECONOMICS AND BUSINESS

| | FALL | SPRING |
|-------------|--|--|
| First Year | <i>The Engaged Citizen & Explorations</i> Language I Learning Domain 1 <i>Intro to Academic Writing</i> | Language II Learning Domain 2 <i>Functions and Models</i> Elective |
| Second Year | <i>Microeconomic Theory</i> <i>Principles of Accounting I</i> Elective Learning Domain 3 | <i>Macroeconomic Theory</i> <i>Principles of Accounting II</i> Learning Domain 4 Elective |
| Third Year | Upper-level Economics (1) Upper-level Business (1) Learning Domain 5 <i>Principles of Statistics</i> | Upper-level Economics (2) Upper-level Business (2) Learning Domain 6 Elective |
| Fourth Year | Upper-level Economics (3) Learning Domain 7 Elective Elective | <i>Business Law</i> Elective Elective Elective |

ECONOMICS

| | FALL | SPRING |
|-------------|---|--|
| First Year | <i>The Engaged Citizen & Explorations</i> Language I Learning Domain 1 <i>Intro to Academic Writing</i> | Language II Learning Domain 2 <i>Functions and Models</i> Elective |
| Second Year | <i>Microeconomic Theory</i> <i>Principles of Accounting I</i> Elective - World course (CW) Learning Domain 3 | <i>Macroeconomic Theory</i> <i>Principles of Accounting II</i> Learning Domain 4 Elective |
| Third Year | Upper-level Economics (1) Upper-level Business (1) Learning Domain 5 <i>Principles of Statistics</i> | Upper-level Economics (2) Learning Domain 6 Elective Elective |
| Fourth Year | Economic Research (3) Upper-level Economics (4) Learning Domain 7 Elective | Upper-level Economics (5) Upper-level Business (2) Elective Elective |

ACCOUNTING

| | FALL | SPRING |
|-------------|--|--|
| First Year | <i>The Engaged Citizen & Explorations</i> Language I Learning Domain 1 <i>Intro to Academic Writing</i> | Language II Learning Domain 2 <i>Functions and Models</i> Elective |
| Second Year | <i>Microeconomic Theory</i> <i>Principles of Accounting I</i> Elective Learning Domain 3 | <i>Macroeconomic Theory</i> <i>Principles of Accounting II</i> Learning Domain 4 Elective |
| Third Year | Upper-level Economics (1) Upper-level Business (1) Learning Domain 5 <i>Principles of Statistics</i> | Upper-level Business (2) Learning Domain 6 Elective Elective |
| Fourth Year | upper-level Business (3) <i>Corporate Finance</i> Learning Domain 7 Elective | Upper-level Business (4) Upper-level Economics (2) <i>Corporate Strategy</i> Elective |

POSSIBLE PREPARATION FOR THE MASTER OF ARTS IN ACCOUNTING PROGRAM:

| | FALL | SPRING |
|-------------|--|--|
| First Year | <i>The Engaged Citizen & Explorations</i> Language I Learning Domain 1 <i>Intro to Academic Writing</i> | Language II Learning Domain 2 <i>Functions and Models</i> Elective |
| Second Year | <i>Microeconomic Theory</i> <i>Principles of Accounting</i> <i>Calculus I</i> Elective | <i>Macroeconomic Theory</i> <i>Principles of Accounting II</i> Learning Domain 3 Elective |
| Third Year | <i>Intermediate Accounting I</i> <i>Advanced Microeconomics</i> Learning Domain 4 <i>Principles of Statistics</i> | <i>Intermediate Accounting II</i> <i>Cost Accounting</i> Learning Domain 5 Learning Domain 6 |
| Fourth Year | <i>Federal Tax Accounting</i> <i>Corporate Finance</i> Learning Domain 7 Elective | <i>Auditing</i> <i>Econometrics and Forecasting</i> <i>Business Law</i> <i>Corporate Strategy</i> |

MASTERS

| FALL | SPRING |
|---|---|
| <i>Advanced Cost Accounting</i> <i>Taxation for Business Entities</i> <i>Advanced Auditing</i> <i>Managerial Economics</i> | <i>Seminar in Advanced Accounting</i> <i>Governmental & Non-Profit Acctg</i> <i>Management Science</i> <i>Accounting Information Systems</i> |

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the accounting major, the economics major, and the economics and business major may be accomplished in one of four ways:

- A. Completion of the course ECON 497 *Economics Research* with a grade of “C or above.
- B. Completion of the course BUSI 497 *Corporate Strategy* with a grade of “C” or above.
- C. Passing a comprehensive written examination with three parts: (1) Principles of Accounting I and II; (2) Microeconomic Theory and Macroeconomic Theory; and (3) a concentration based on two upper-level courses, both of which are either accounting or economics courses.
- D. Successful completion of an economic research project in conjunction with the Baker Prize in Economics.

The grade for the Senior Capstone Experience is based on the Economic Research course, the Corporate Strategy course, the written comprehensive examination, or determined by the faculty member sponsoring the Baker Prize research project.

EDUCATION

Students interested in seeking licensure are encouraged to complete as many general education requirements (Collegiate Center, Learning Domains, and Capacities) and 200-level education courses as possible during their first year at Hendrix. Students must complete a major in their area of licensure in addition to the Education Department courses for licensure. See “Education” in the “Guide to Academic Majors and Minors” section of this Guide for additional information.

Hendrix College is accredited by the Council for Accreditation of Education Preparation (CAEP) for the preparation of teachers. In order to be recommended for teacher licensure, students must complete all Hendrix graduation requirements, all departmental requirements, all subject matter preparation requirements, and all state requirements. A listing of these requirements (including those of the Arkansas State Department of Education) may be obtained from the Education Department.

General requirements for all students seeking licensure in the State of Arkansas

- A. The Program for the Bachelor of Arts Degree as listed in the *Hendrix College Catalog*
- B. The course requirements for ONE of the licensure areas listed below:

LICENSURE IN ELEMENTARY EDUCATION (GRADES K-6)

- BIOL 101 *Concepts of Biology* (NS-L)
- CHEM 101 *Chemistry of the Environment* (NS-L)
- MATH 120 *Functions and Models*
- PHYS 171 *Introductory Earth Science* with Lab (NS-L)
- EDUC 205 *Foundations in Education*
- EDUC 220 *Educational Psychology*
- HIST 270 *Arkansas History*
- EDUC 330 *Children's Literature*
- EDUC 360 *Inclusive Education*
- EDUC 402 *Teaching Reading in K-6*
- EDUC 422 *Teaching Language Arts and Social Studies, K-6*
- EDUC 426 *Teaching Math and Science, K-6*
- EDUC 450 *Introduction to Student Teaching*
- EDUC 451 *Student Teaching* (three credits)

The above course requirements fulfill a major in elementary education with K-6 licensure.

LICENSURE IN SECONDARY ENGLISH/LANGUAGE ARTS (GRADES 7-12)

- EDUC 205 *Foundations in Education*
- EDUC 220 *Educational Psychology*
- EDUC 360 *Inclusive Education*
- EDUC 431 *Methods in the Secondary School: English/Language Arts*
- EDUC 460 *Introduction to Student Teaching, Secondary, 7-12*

EDUC 461 *Student Teaching, Secondary, 7-12* (three credits)

ENGL 117 *Grammar and Composition* or its equivalent (approved by the chair)

The course requirements for a major in English.

LICENSURE IN FRENCH, GERMAN, LATIN, OR SPANISH (GRADES K-12)

EDUC 205 *Foundations in Education*

EDUC 220 *Educational Psychology*

EDUC 360 *Inclusive Education*

EDUC 432 *Methods in the Secondary School: Foreign Language*

EDUC 470 *Introduction to Student Teaching, K-12*

EDUC 471 *Student Teaching, Secondary, K-12* (three credits)

The course requirements for a major in French, Spanish, German, or Classics (with a focus on Latin).

LICENSURE IN SECONDARY LIFE SCIENCE (GRADES 7-12)

EDUC 205 *Foundations in Education*

EDUC 220 *Educational Psychology*

EDUC 290 *Science in Society*

EDUC 360 *Inclusive Education*

EDUC 434 *Methods in the Secondary School: Life/Earth Science*

EDUC 460 *Introduction to Student Teaching, Secondary, 7-12*

EDUC 461 *Student Teaching, Secondary, 7-12* (three credits)

PHYS 210, PHYS 211, or PHYS 230

General Physics I

PHYS 170 or PHYS 171 *Introductory Earth Science*

The course requirements for a major in biology, biochemistry/molecular biology, or environmental studies. (Natural Science concentration: Biology)

LICENSURE IN SECONDARY MATHEMATICS (GRADES 7-12)

EDUC 205 *Foundations in Education*

EDUC 220 *Educational Psychology*

EDUC 360 *Inclusive Education*

EDUC 433 *Methods in the Secondary School: Mathematics*

EDUC 460 *Introduction to Student Teaching, Secondary, 7-12*

EDUC 461 *Student Teaching, Secondary, 7-12* (three credits)

The course requirements for a major in mathematics.

LICENSURE IN SECONDARY PHYSICAL SCIENCE (GRADES 7-12)

EDUC 205 *Foundations in Education*

EDUC 220 *Educational Psychology*

EDUC 290 *Science in Society*

EDUC 360 *Inclusive Education*

EDUC 439 *Methods in the Secondary School: Physical/Earth Science*

EDUC 460 *Introduction to Student Teaching, Secondary, 7-12*

EDUC 461 *Student Teaching, Secondary, 7-12* (three credits)

BIOL 150 *Cell Biology*

PHYS 170 or PHYS 171 *Introductory Earth Science*

The course requirements for a major in chemistry, physics, or chemical physics.

LICENSURE IN SECONDARY SOCIAL STUDIES (GRADES 7-12)

EDUC 205 *Foundations in Education*

EDUC 220 *Educational Psychology*

EDUC 360 *Inclusive Education*

EDUC 390 *Cultural Geography*

EDUC 435 *Methods in the Secondary School: Social Studies*

EDUC 460 *Introduction to Student Teaching, Secondary, 7-12*

EDUC 461 *Student Teaching, Secondary, 7-12* (three credits)

HIST 270 *Arkansas History*

The course requirements for a major in history, politics, psychology, religion, sociology/anthropology, or philosophy.

COURSE PLANNING:

Elementary Major with Licensure

| | FALL | SPRING |
|-------------|---|---|
| First Year | <i>The Engaged Citizen & Explorations</i> MATH 130 <i>Functions and Models</i> Foreign Language 1 BIOL 101 <i>Concepts of Biology</i> | EDUC 205 <i>Foundations in Education</i> <i>Foreign Language 2</i> CHEM 101 <i>Chemistry of the Environment</i> 4th Course |
| Second Year | PHYS 171 <i>Intro to Earth Science</i> EDUC 220 <i>Educational Psychology</i> 3rd Course 4th Course | EDUC 402 <i>Teaching Reading</i> 2nd Course 3rd Course 4th Course |
| Third Year | EDUC 330 <i>Children's Literature</i> EDUC 360 <i>Inclusive Education</i> EDUC 422 <i>Teaching Language Arts and Social Studies</i> 4th Course | HIST 270 <i>Arkansas History</i> 2nd Course 3rd Course 4th Course |
| Fourth Year | EDUC 426 <i>Teaching Math and Science</i> 2nd Course 3rd Course 4th Course | EDUC 350 <i>Intro to Student Teaching</i> EDUC 351 <i>Student Teaching</i> (3 credits) |

SECONDARY (GRADES 7-12) LICENSURE

First Year: EDUC 205 *Foundations in Education* and/or EDUC 220 *Educational Psychology*

Second Year: EDUC 205 *Foundations in Education* and/or EDUC 220 *Educational Psychology*

Third Year: EDUC 360 *Inclusive Education*

Fourth Year: EDUC 360 *Methods Course and Student Teaching*

Minor

Minor in Education – Elementary Emphasis

A total of seven (7) courses distributed as follows:

- EDUC 205 *Foundations in Education*
- EDUC 220 *Educational Psychology*
- EDUC 330 *Children's Literature*
- EDUC 360 *Inclusive Education*
- EDUC 402 *Teaching Reading in K-6*
- EDUC 422 *Teaching Language Arts and Social Studies, K-6*
- EDUC 426 *Teaching Math and Science, K-6*

Minor in Education – Secondary Emphasis:

Six (6) courses as follows:

- EDUC 205 *Foundations in Education*
- EDUC 220 *Educational Psychology*
- and

One methods course from the following:

- EDUC 431 *Methods in the Secondary School: English Language Arts*
- EDUC 432 *Methods in the Secondary School: Foreign Languages*
- EDUC 433 *Methods in the Secondary School: Mathematics*
- EDUC 434 *Methods in the Secondary School: Life/Earth Science*
- EDUC 435 *Methods in the Secondary School: Social Studies*
- EDUC 439 *Methods in the Secondary School: Physical/Earth Science*
- and

Three courses from the following:

- EDUC 290 *Science in Society*
- EDUC 315 *Critical Issues in Education*
- EDUC 360 *Inclusive Education*
- EDUC 375 *Research and Measurement in Education*
- EDUC 390 *Cultural Geography*
- EDUC 400 *Topics in Education*

ENGLISH

Students who have been recommended for Writing as their entry-level course in English should take ENGL 110 *Introduction to Academic Writing*. ENGL 110 fulfills the Writing Level I (W1) requirement.

Students who have been recommended for an Introduction to Literary Studies course may take any course in the English department listed as “W1” in the Course Schedule.

Students must meet this requirement during the first or second year. English 110 should be

taken in the first year. English 200-level literature courses can be taken in the first or second year. These courses are not open to Juniors and Seniors.

First-year students are not allowed to enroll in any course in English numbered 300 or above.

Major

Students majoring in English choose one of three emphases: Literary Studies (ENGL), Film Studies (ENGF), or Creative Writing (ENGC). The department does not support a major in Film Studies or Creative Writing. Students interested in a Film Studies minor should refer to the Film Studies section of the *Catalog*. Students may not double major using two of these emphases.

LITERARY STUDIES

11 courses distributed as follows:

- ENGL 280 *Literary Analysis*
- ENGL 497 *Senior Thesis Seminar*
- Three ENGL courses focused on pre-1900 literature, at least one of which must be pre-1700
- Three ENGL courses focused on post-1900 literature
- One course in literary theory
- Two other ENGL/F/C courses

Of these courses:

- The Literary Studies emphasis must have one 200-level ENGL course in addition to ENGL 280, and nine 300-400 level courses, including ENGL 497 *Senior Thesis Seminar* and at least one other 400-level ENGL seminar
- Only one ENGC and one ENGF count toward the Literary Studies emphasis.
- The Literary Studies emphasis does not prevent a student from a Film Studies minor.

FILM STUDIES

11 courses distributed as follows:

- Any 200-level ENGF course or ENGL 223 *Literary and Cinematic Adaptations*
- ENGL 280 *Literary Analysis*
- ENGL 497 *Senior Thesis Seminar*
- Two ENGL courses focused on pre-1900 literature, at least one of which must be pre-1700
- Two ENGL courses focused on post-1900 literature
- One course in literary theory or film theory
- Three 300-400 level ENGF courses, one of which can be a film course from another department

Of these courses:

- In addition to the two specified 200-level courses, the Film Studies emphasis must

have nine 300-400 level courses, including ENGL 497 *Senior Thesis Seminar* and at least one other 400-level ENGL/F seminar

- Only one film course can come from another department
- A student with a Film Studies emphasis cannot minor in film studies

CREATIVE WRITING

11 courses distributed as follows:

- ENGL 280 *Literary Analysis*
- ENGC 497 *Creative Writing Senior Thesis Seminar*
- Two ENGL courses focused on pre-1900 literature, at least one of which must be pre-1700
- Two ENGL courses focused on post-1900 literature
- Any other ENGL or ENGF course
- Four 300-400 level ENGC courses (in addition to ENGC 497), only one of which can be a creative writing course from another department or institution.

Of these courses:

- The Creative Writing emphasis must have one 200-level course in addition to ENGL 280, and nine 300-400 level courses, including ENGC 497 *Senior Thesis Seminar* and at least one other 400-level ENGC seminar.
- Only one creative writing course can come from another department.

Minor

LITERARY STUDIES

6 courses distributed as follows

- Two 200-level courses including ENGL 280
- Four 300-400 level courses

Of these courses:

- One of the courses must emphasize literature before 1700
- One Film Studies (ENGf) course or one Creative Writing (ENGC) course can count toward a minor in English

COURSES BY REQUIREMENTS

Pre-1700: ENGL 238, 239, 305, 312, 313, 314, 317, 318, 414

Pre-1900: ENGL 240, 256, 263, 319, 320, 322, 325, 327, 328, 329, 343, 416, 418, 420, 432, 435, 441, 463, 467

Post-1900: ENGL 205, 223, 235, 245, 248, 249, 250, 258, 265, 271, 275, 321, 330, 335, 336, 348, 350, 353, 363, 366, 397, 450, 454, 455, 460, 464, 465

Literary Theory: ENGL 358, 362, 390; ENGf 381

COURSE PLANNING:

First Year

1. ENGL 110 *Introduction to Academic Writing* (only if recommended)
2. One 200-level “Introduction to Literary Studies” English course
3. Two courses in foreign language
4. Other courses to fulfill requirements in the Collegiate Center and the Learning Domains

Second Year

1. ENGL 280 *Literary Analysis*
2. If not taken in the first year, one 200-level “Introduction to Literary Studies” English course. Film Studies students should take a 200-level ENGF course or ENGL 223 *Literary and Cinematic Adaptation*
3. Consult with your advisor about taking a 300-level English course in the spring semester.
4. Other courses to fulfill collegiate requirements

Third year

1. Three to four 300-level English courses from various distribution fields
2. One 400-level English seminar in the spring if there is a topic of interest (note that senior seminars are not repeated annually)
3. A course in literary theory for those with the Literary Studies or Film Studies emphasis and any student considering graduate school
4. Study abroad
5. Literature courses in a foreign language (recommended)
6. Other collegiate requirements and electives
7. In the spring and summer, begin talking with the faculty, thinking about, and perhaps researching your senior thesis.

Senior Year

1. Two 300-400 level English courses to complete distribution requirement
2. One 400-level English seminar in the fall (optional if taken in Third Year)
3. ENGL 497 *Senior Thesis Seminar* in the spring term:
Find a faculty member from the Department to advise your thesis (mid-September), and turn in two short pieces of writing (October & December)
4. Other collegiate requirements and electives

Note: Students who intend to study abroad should consult their advisors or the Chair of the English Department to ensure that their progress toward graduation is uninterrupted. Students should not assume that courses taken abroad will automatically count towards the major or minor; such courses must be approved by the Chair.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the English major consists of a substantial independent writing project produced for ENGL or ENGC 497. The grade for the Thesis (written work + oral exam) is the grade for the senior capstone experience.

ENVIRONMENTAL STUDIES

Major

Thirteen courses distributed as follows:

CORE REQUIREMENTS:

- EVST 110 *Introduction to Environmental Studies*
- BIOL 104 *Environmental Biology*
- CHEM 101 *Chemistry of the Environment*
- ENGL 275 *American Literature and the Environment*
or
ENG 306 *Exploring Nature Writing*
or
HIST 212 *American Environmental History*
- POLI 235 *Public Policy*
or
POLI 365 F1 *Environmental Policy and Management*
- PSYC 290 *Statistics*
or
BUSI 250 *Principles of Statistics*
or
MATH 215 *Statistical Analysis*
or
ANTH 335 *Geographic Information Science*
- ECON 340 *Environmental Economics*
- SOCI 375 *Environmental Sociology*
or
ANTH 330 *Human Impact on the Ancient Environments*
- RELI 270 *Ecotheology*
or
PHIL 270 *Environmental Philosophy*
or
PHIL 315 *Ethics and Relations to Friend, Kin, and Community*
- EVST 497 *Senior Seminar*

All majors must complete an internship with an environmental studies focus. The internship must be approved in advance by the Environmental Studies chair.

Each student **must** choose a concentration and complete remaining courses:

(list next page)

NATURAL SCIENCE CONCENTRATION:

Biology

- BIOL 150 *Cell Biology*
- BIOL 190 *Botany*
- or
- BIOL 220 *Zoology*
- BIOL 250 *Genetics*
- BIOL 365 *Ecology and Evolution*

Students who complete the biology sequence will not have to take the core course BIOL 104 *Environmental Biology*.

OR

Chemistry

- CHEM 110 *General Chemistry I: Chemical Structure and Properties and*
- CHEM 120 *General Chemistry II: Chemical Analysis and Reactivity*
- or
- CHEM 150 *Accelerated General Chemistry*
- CHEM 240 *Organic Chemistry I*
- EVST 275 *Environmental Analysis*

Students who complete the chemistry sequence will not have to take the core course CHEM 101 *Chemistry of the Environment*.

SOCIO-CULTURAL CONCENTRATION (three elective courses from three different disciplines)

- ANTH 360 *Globalization and Transnationalism*
- ENGC 306 or SOCI 306 *Exploring Nature Writing**
- ENGF 275 *Film and the Environment*
- ENGL 275 *American Literature and the Environment**
- HIST 212 *American Environmental History**
- HIST 308 *Ecology in American Indian History*
- PHIL 270 *Environmental Philosophy**
- PHIL 330 *Ethical Theory*
- PHIL 490 *Special Topics***
- RELI 270 *Ecotheology*
- SOCI 300 *The Urban Community*
- SOCI 340 *Food, Culture, and Nature*
- SOCI 362 *Images of the City*

* If not taken in core requirements.

** Must be approved by EVST chair. Some topics might not cover environmental concepts.

COURSE PLANNING

The following tables represent guides to help with schedule planning and are not exclusive. For the student wishing to major with a natural science concentration having interest in biology:

| | FALL | SPRING |
|--------------------|---|---|
| First Year | <i>The Engaged Citizen & Explorations</i> EVST 110 2 electives | ENGL/EVST 275 BIOL 150 2 electives |
| Second Year | CHEM 101 3 electives | BIOL 190 or BIOL 220 3 electives |
| Third Year | SOCI 375 PSYC 290 or BUSI 250 or MATH 250 or ANTH 335 GIS BIOL 250 1 elective | POLI 235 3 electives |
| Fourth Year | ECON 340 BIOL 365 2 electives | EVST 497 RELI 270 or PHIL 270 or PHIL 315 2 electives |

For a major with a natural science concentration with interest in chemistry:

| | FALL | SPRING |
|--------------------|---|---|
| First Year | <i>The Engaged Citizen & Explorations</i> CHEM 110 or CHEM 150 EVST 110 1 elective | CHEM 120 ENGL/EVST 275 2 electives |
| Second Year | CHEM 240 3 electives | CHEM/EVST 280 POLI 235 2 electives |
| Third Year | PSYC 290 or BUSI 250 or MATH 250 or ANTH 335 GIS BIOL 104 2 electives | SOCI 375 or ANTH 330 ECON 340 2 electives |
| Fourth Year | 4 electives | EVST 497 RELI 270 or PHIL 270 or PHIL 315 2 electives |

For the student wishing to major with a socio-cultural concentration:

| | FALL | SPRING |
|-------------------|--|--|
| First Year | <i>The Engaged Citizen & Explorations</i> EVST 110 2 electives | ENGL/EVST 275 POLI 235 2 electives |

| | | |
|--------------------|--|--|
| Second Year | BIOL 104 3 electives | PSYC 290 or BUSI 250 or MATH 250 or ANTH 335 GIS RELI 270 or PHIL 270 or PHIL 315 2 electives |
| Third Year | SOCI 375 or ANTH 330 CHEM 101 Major elective 1 elective | ECON 340 Major elective 2 electives |
| Fourth Year | Major elective 3 electives | EVST 497 3 electives |

Study-Away Programs:

Coursework undertaken through study-away programs (abroad or domestic) enhances the Hendrix environmental studies major, and is encouraged. Appropriate examples include Hendrix-in-Costa Rica, The Hendrix American Southwest Program, The Gulf Coast Research Laboratory, and the Semester in Environmental Science. Pre-approval by the EVST department chair is recommended. For more information, see the “Engaged Learning Opportunities” section of the *Catalog*.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the environmental studies major consists of participation in the Senior Seminar course. EVST 497 Senior Seminar is a one semester course that involves common readings, research methods, and both written and oral presentation of independent research. The grade for the Senior Capstone Experience is based on the oral presentation and defense of research components of the senior seminar.

FILM STUDIES

Students interested in a Film Studies minor or an English-Film Studies major should take ENGF 269: *Introduction to Film Studies* or ENGF 223: *Literary and Cinematic Adaptations* in their first year. First-year students should only take these courses a) if the English department recommends an Introduction to Literary Studies course, or b) after first completing ENGL 110: Introduction to Academic Writing.

Students can pursue Film Studies at Hendrix either through the Film Studies minor or the English-Film Studies Major (as described under the English departmental section of the catalog).

Minor

Six (6) courses distributed as follows:

- ENGF 269 *Introduction to Film Studies*
- Five additional courses from the following:
ANTH 250 *Visual Anthropology*

ARTH/PHIL 389 *Aesthetics and Contemporary Art*
ENGF 275 *Film and the Environment*
ENGF 310 *French New Wave*
ENGF 358 *African Film*
ENGF 370 *Film History*
ENGF 381 *Film Theory*
ENGF 382 *Non-Fiction Film*
ENGF 390 *Topics in Film Studies*
ENGF 490 *Topics in Film Studies*
ENGL 223 *Literary and Cinematic Adaptations*
ENGL 248 *The Holocaust in Literature, Theory, and Film*
ENGL 271 *Crime Literature and Film*
FILM 210 *Screenwriting*
FILM 392 *Great Directors*
FILM 399 *Independent Study*
HIST 180 *Theatre and Film in Modern China*
HIST 190 *History and Film*
MUSI 180 *Film Music*
SOCI 255 *Gender in Film and Television*

On occasion, departments throughout the college offer special topics courses that focus primarily on film. With the approval of the film studies chair, students may count such courses towards a film studies minor.

Students may count up to two independent studies toward the minor.

FOREIGN LANGUAGES

For information on the Classics major and minor, see the entry for Classics. For information on the Asian Studies minor, see the entry for Asian Studies.

All entering students who have successfully completed two or more years of Chinese, French, German, Latin, or Spanish in high school are required to take a placement test in that language. A placement test in Ancient Greek and/or Chinese can be arranged by contacting the respective Classics or Chinese faculty. Placement recommendations based on the test will be made before registration. Unless these recommendations indicate otherwise, students should enroll in the Basic Sequence (Chinese, French, German, Greek, Latin, or Spanish 110).

Any student who is placed in 120 or higher and completes that course with a grade of C or higher will automatically receive college credit for 110.

Students who test out of the entire first-year sequence in a foreign language will have ful-

filled the foreign language requirement. They may either:

- 1) elect either to take no further foreign language courses, or to take courses in another language,
- 2) decide to take the recommended foreign language course and receive one additional course credit upon completion of the recommended course with a “C” or higher.

Major in French

A major in French consists of the following: nine courses above the first-year sequence, distributed as follows:

- FREN 210 *Intermediate French Composition and Conversation I*
- FREN 220 *Intermediate French Composition and Conversation II*
- FREN 340 *Survey of French Literature and Civilization I*
- or
- FREN 350 *French Literature and Civilization II*
- Six electives above 215

Students certifying to teach are strongly encouraged to take FREN 320 *Practical Phonetics*.

Major in German

At least nine courses above the basic sequence, including

- GERM 210 or 310 *Intermediate Composition and Conversation*
- GERM 320 *Survey of German Literature and Civilization, Part I*
- or
- GERM 330 *Survey of German Literature and Civilization, Part II*, and
- GERM 420 *Senior Seminar in German Literary History*

Major in Spanish

At least nine courses above the basic sequence distributed as follows:

- SPAN 310 *Survey of Spanish Literature to 1800*
- SPAN 320 *Survey of Spanish Literature since 1800*
- SPAN 330 *Survey of Latin-American Literature*
- 6 electives. Either SPAN 210 *Conversation and Composition* or SPAN 220 *Advanced Grammar and Composition* can be counted among the 6 courses, but not both. The department encourages all students to have a study-abroad experience. Some things to remember include that, for a major and a minor, at least half of the courses taken to fulfill SPAN courses have to be based on literary texts. If a student hasn't taken SPAN 210 at Hendrix, a course in conversation could transfer as an equivalent. Courses taken in Spanish but in other disciplines transfer as courses in those disciplines and do not count towards a Spanish major or minor.

Minor in Chinese, French, German, or Spanish

A minor consists of five (5) courses in either Chinese, French, German, or Spanish at or above the 200-level. In Spanish, only 200 or 220 (not both) may count toward the minor.

COURSE PLANNING:

Required courses are primarily either skills courses or survey of literature and/or culture courses. They are offered frequently. The rest of the advanced courses in the department are usually offered only every third year.

Students wishing to pursue a major combining foreign language with other disciplines may, with the help of a faculty advisor, create an individualized major through the Interdisciplinary Studies major available at the College.

Students are strongly urged to spend a year outside of the U.S. in a study-abroad program sponsored by Hendrix or another U.S. institution, or by a foreign university. Planning should be done in consultation with a faculty member in the appropriate target language.

Language majors considering graduate study in their language are strongly encouraged to take at least the Basic Sequence in a second foreign language.

SENIOR CAPSTONE EXPERIENCE:

FRENCH: The Senior Capstone Experience for the French Major is completed with a C or better in FREN 480, a course on French Literature, Literary History, and Civilization, with an emphasis on literary analysis, research, and presentation of research.

GERMAN: The Senior Capstone Experience for the German major consists of three examinations taken in conjunction with GERM 420 Senior Seminar in German Literary History. The examinations cover German history, literary analysis, and literary history, respectively. Senior majors are also offered the opportunity to demonstrate their mastery of the language by taking an internationally recognized Goethe Institute language achievement test offered by the University of Arkansas at Fayetteville in April of each year.

SPANISH: The Senior Capstone Experience for the Spanish major is a comprehensive examination based on coursework in the major and on courses taken abroad, if applicable. The format of the written examination may vary from question to question, but the test will consist of five parts and should not exceed three hours in length. The grade for the Senior Capstone Experience is based on the examination.

GENDER STUDIES

Major

Available only through the Interdisciplinary Studies major (see Interdisciplinary Studies entry in this section of the *Guide*).

Minor

Five courses drawn from the following and including at least one from Humanities and one from Social Sciences, drawn from the following:

- Humanities courses

- ENGL 250 *Women and African Literature*
- ENGL 258 *American War Literature*
- ENGL 275 *American Literature and the Environment*
- ENGL 305 *Chaucer's 'Troilus and Criseyde'*
- ENGL 343 *Sexuality before Sex in Early American Literatures*
- ENGL 362 *Literary Theory*
- ENGL 432 *Jane Austen*
- ENGL 435 *The Brontës*
- ENGL 454 *Lawrence and Woolf*
- ENGL 465 *Hemingway*
- GEND 268 *Introduction to Gender Studies—Humanities focus*
- PHIL 267 *Introduction to Gender Studies - Humanities focus*
- PHIL 310 *Feminist Thought*
- RELI 327 *Race, Gender, Empire, and the Bible*
- RELI 330 *Religion, Gender and Sexuality*
- SPAN 485 *Gender and Power in the Latin American Novel*

- Social Sciences

- ANTH 280 *Anthropology of Gender*
- ANTH 390 *Social Inequality and Identity*
- GEND 267 *Introduction to Gender Studies—Social Science focus*
- HIST 140 *Leisure in America*
- HIST 150 *Great Wars, the Great Depression, and the Great Gatsby, 1914-1945*
- HIST 226 *Renaissance and Reformation Europe*
- HIST 227 *Medicine and Disease in Pre-Modern Europe*
- HIST 307 *Gender and Society in East Asia*
- HIST 318 *Magic and Witchcraft in Early Modern Europe*
- POLI 100 *Issues in Politics: Gender*
- POLI 200 *Issues in Politics: HIV/AIDS*
- POLI 300 *Feminist Political Thought*
- POLI 380 *Gender, Sexuality, and American Politics*

PSYC 260 *Human Sexuality*
PSYC 400 *Psychology of Gender*
SOCI 250 *Sociology of the Family*
SOCI 255 *Gender in Film and Television*
SOCI 310 *Gender and Sexuality*
SOCI 390 *Social Inequality and Identity*

*If a course offered at the college has a clear focus on gender but is not listed above, students may petition the Gender Studies chair to have the course count toward the Gender Studies minor.

Students may count one course in their major discipline towards the Gender Studies minor, but this course will not count toward their major.

HEALTH SCIENCES

A new Health Science major will be presented to the faculty and the Board of Trustees for their approval in the fall of 2015. The major will utilize an interdisciplinary approach to health sciences providing students strong preparation for graduate and professional programs in Nursing, Physicians' Assistant, and Physical/Occupational Therapy. (Some professional schools may have additional pre-requisites so students should always check individual program requirements carefully.)

COURSE PLANNING:

First Year:

BIOL 150 *Cell Biology*
CHEM 110 *General Chemistry I*

Second through Fourth Years:

Consult with your advisor when planning for these years.

SENIOR CAPSTONE EXPERIENCE

The senior capstone experience will be approved in the fall of 2015.

HISTORY

General Comments

First-year students are encouraged to take any 100- or 200-level history course whose topic interests them. Starting their sophomore year, non-majors and majors are welcome to take 300-level courses.

The Department of History encourages non-majors to consider any of our classes except HIST 480 *Senior Capstone Seminar*.

Students who plan to apply for graduate work in history are urged strongly to take consider-

able course work in at least one foreign language. Specifically, the department recommends that such students take at least one course beyond what is stated in the collegiate foreign language requirement.

Major

All students majoring in history will take 11 courses distributed in the following manner:

- 2 courses in American history
- 2 courses in European history
- 3 courses selected in Global history
- 2 elective courses in history
- HIST 300 *Historiography*
- HIST 480 *Senior Capstone Seminar*

These 11 courses must include:

At least five 300- or 400-level courses. These will include HIST 300 *Historiography* and HIST 480 *Senior Capstone Seminar*. Students will choose three other 300- or 400-level courses. The department strongly recommends that students take HIST 300 *Historiography* during either their sophomore or junior year, before they take HIST 480 *Senior Capstone Seminar*.

SENIOR CAPSTONE EXPERIENCE:

For their senior capstone experience, history majors will take HIST 480 *Senior Capstone Seminar* during the spring of their senior year.

Minor

All students minoring in history will take 6 courses distributed in the following manner:

- 1 course in American history
- 1 course in European history
- 2 courses selected in Global history.
- 2 elective courses in history

COURSE PLANNING:

First Year

First-year students are encouraged to take any 100- or 200-level history course whose topic interests them.

Second Year

Sophomores are welcome to take any 100-, 200-, or 300-level history course whose topic interests them. History majors who plan on studying abroad in the spring of their junior year should take HIST 300 *Historiography* during the spring of their sophomore year.

Third Year

All history majors need to take HIST 300 *Historiography* by the end of their junior year. They should also enroll in several other history courses, bearing in mind the need to select classes that fulfill departmental requirements. Students are urged to consult carefully with their advisors in the crafting of their major. Majors should take at least one research-intensive course prior to the spring of their senior year, and junior year is an ideal time to do so. Academic advisors can help majors identify classes that have a strong research component. Double majors or interdisciplinary majors whose advisors are not historians must talk to a member of the department about how to fulfill their requirements in history.

Fourth Year

Senior history majors should ensure that the courses they register for will allow them to complete all of the requirements for graduation, both collegiate and departmental. Seniors who wish to pursue an independent research project or who have not yet taken a research-intensive history course are urged to take HIST 450 *Advanced Research and Writing* in the fall, prior to taking HIST 480 *Senior Capstone Seminar* in the spring. Participation in HIST 450 is contingent upon the approval of the department.

SENIOR CAPSTONE EXPERIENCE:

As noted above, history majors are required to take HIST 480 in order to graduate.

INTERDISCIPLINARY STUDIES

Capable and self-motivated students wishing to explore major courses of study not offered by the College may petition for an Interdisciplinary Studies major. The major allows such students the freedom to design and develop a course of study which combines classes taken from several departments or areas. Each Interdisciplinary Studies major must have a coherent thematic principle governing the selection and sequencing of courses in the major and it must be consistent with the goals of a liberal arts education. Students who would like to explore an Interdisciplinary Studies major are urged to consult with their faculty advisor or the office of the Associate Provost for Academic Affairs. Examples of recently approved Interdisciplinary Studies majors can be found on the Interdisciplinary Studies web page (<http://www.hendrix.edu/academics/academics.aspx?id=14586>).

A student wishing to pursue an interdisciplinary major should, before spring registration of the sophomore year, find a faculty advisor who is interested in mentoring him or her through this major. Under no circumstances should this be done later than the fall semester of the student's junior year.

- The student and advisor, working together, will draft a program of study satisfying the requirements for an interdisciplinary major (see below).
- The student will write a justification for this major, articulating its overarching theme and stating his or her aims and the way the major will satisfy them.
- The student and advisor will recruit one or two more faculty members to constitute the supervisory committee for the major. The advisor will chair this committee. The

committee will review and approve, with possible modifications, the proposed major and its justification.

- The proposed major, signed by the student and the members of the committee, will be sent to the Associate Provost for approval, along with the student's narrative justification for it.
- If the Associate Provost approves the proposed major, he or she will notify the student and the committee in writing that the major has been accepted. The Associate Provost will inform the Registrar of the student's major requirements.
- Once the major has been accepted the student should complete an Advisor Designation and Major/Minor Declaration form.
- Once the major has been accepted, any changes must be approved by the committee and by the Associate Provost, who will report the changes to the Registrar.

In addition to its thematic coherence, an interdisciplinary studies major must include the following components.

- A clear title for the major;
- At least 10 courses (with suitable alternate courses, if appropriate). As with any major, at least 50% of major courses must be taken in residence at the College and a minimum grade point average of 2.0 in the major must be achieved;
- No fewer than 4 of the major courses at the 300- or 400-level;
- The interdisciplinary studies major proposal must include a senior capstone experience with elements that are methodologically appropriate for the major. The proposal should describe the capstone experience, explain how the grade will be determined, and tell whether or not the capstone is course-based.

INTERNATIONAL RELATIONS

Major

Twelve (12) courses distributed as follows:

- 3 Foundations courses from:
 - POLI 100 *Issues in Politics*
 - POLI 250 *History of the International System*
 - POLI 355 *Advanced International Relations*or
 - POLI 376 *Democracy, Development and Violence*
- 1 Economics courses from:
 - POLI 260 *Political Economy*
 - ECON 360 *International Economics*
- 1 Comparative/Regional Studies course from:
 - POLI 272 *Politics of Central and Eastern Europe*
 - POLI 273 *Contemporary Global Issues*
 - HIST 170 *Contemporary Europe*
 - HIST 222 *England Since 1688*

HIST 243 *Modern Middle East*
HIST 244 *Modern China*
HIST 245 *History of Southern Africa*
HIST 246 *Modern Japan*
HIST 251 *History of Central Africa*
HIST 252 *History of East Africa*
HIST 253 *History of West Africa*
HIST 280 *Contemporary Africa*
HIST 285 *Twentieth Century East Asian-American Relations*
HIST 291 *Japan's Pacific War*
HIST 292 *The Two Koreas*
HIST 293 *Korea: The Forgotten War*
HIST 304 *Mao and the Chinese Revolution*
HIST 306 *Crime and Punishment in East Asia*
HIST 310 *The Iraq War*
HIST 341 *The Arab-Israeli Conflict*

- 1 Institutions and Governance course from:
 - HIST 334 *Comparative Genocides*
 - POLI 283 *Model United Nations*
 - POLI 325 *International Law and Organizations*
 - POLI 326 *International Human Rights*
 - POLI 341 *The World of Elections*
- 1 Foreign Policy course from:
 - POLI 281 *U.S. Foreign Policy*
 - POLI 282 *Foreign Policy Analysis*
- 3 Research Methods/Capstone courses from:
 - MATH 215 *Statistical Analysis*
 - POLI 400 *Research Methods*
 - POLI 497 *Senior Research Seminar*
- 2 additional courses from the above lists and including POLI 240 and others approved by the department upon petition.

STUDY ABROAD REQUIREMENT

All international relations majors must complete at least one study abroad experience that earns at least one Hendrix course credit. Students must seek approval from the department before completing this requirement. With approval by the department, this study abroad credit may substitute for one of the required courses listed above.

Minor

7 courses distributed as follows:

- 2 International Relations courses from
 - POLI 250 *History of the International System*

POLI 355 *Advanced International Relations*

OR

POLI 376 *Democracy, Development and Violence*

- 1 Economics course from:
 - POLI 260 *Political Economy*
 - ECON 360 *International Economics*
- 1 Comparative/Regional Studies course from
 - POLI 272 *Politics of Central and Eastern Europe*
 - POLI 273 *Contemporary Global Issues*
 - HIST 170 *Contemporary Europe*
 - HIST 222 *England Since 1688*
 - HIST 243 *Modern Middle East*
 - HIST 244 *Modern China*
 - HIST 245 *History of Southern Africa*
 - HIST 246 *Modern Japan*
 - HIST 251 *History of Central Africa*
 - HIST 252 *History of East Africa*
 - HIST 253 *History of West Africa*
 - HIST 280 *Contemporary Africa*
 - HIST 285 *Twentieth Century East Asian-American Relations*
 - HIST 291 *Japan's Pacific War*
 - HIST 292 *The Two Koreas*
 - HIST 293 *Korea: The Forgotten War*
 - HIST 304 *Mao and the Chinese Revolution*
 - HIST 306 *Crime and Punishment in East Asia*
 - HIST 310 *The Iraq War*
 - HIST 341 *The Arab-Israeli Conflict*
- 1 Institutions and Governance course from:
 - HIST 334 *Comparative Genocides*
 - POLI 283 *Model United Nations*
 - POLI 325 *International Law and Organizations*
 - POLI 326 *International Human Rights*
 - POLI 341 *The World of Elections*
- 1 Foreign Policy course from:
 - POLI 281 *U.S. Foreign Policy*
 - POLI 282 *Foreign Policy Analysis*
- 1 additional course from the above lists or as approved by the department.

COURSE PLANNING:

POLI 100 and 250 are considered foundational courses and should, ideally, be taken before the 300-level courses. Even though each POLI 100 course is on a different issue, only one POLI 100 course may be taken for credit. POLI 250 *History of the International System* is a prerequisite for both of the advanced course requirements of the major, POLI 355 *Advanced*

International Relations and POLI 376 *Democracy, Development and Violence*. It is also a prerequisite for POLI 325 *International Law & Organizations*. MATH 215 *Statistical Analysis* should be taken before POLI 400 Research Methods. We recommend that Research Methods be taken in the fall or spring of the junior year and certainly before senior year. Students planning to study abroad for their entire junior year should take MATH 215 and POLI 400 in their sophomore year. Students who intend to apply for Odyssey funding for summer research are encouraged to take Research Methods in the fall to meet Odyssey deadlines.

Students interested in satisfying the Economics requirement for the IR major by taking ECON 360 should take ECON 200 *Microeconomics* and ECON 210 *Macroeconomics*. For those students, these two economics courses are required as prerequisites for ECON 360.

The Department strongly recommends students tailor their academic program, as well as supporting coursework, to their interests and career goals in consultation with an advisor. Moreover, we encourage students to pursue additional foreign language training beyond the College's basic foreign language requirement and to complement the major by taking relevant courses in Sociology, Anthropology and/or Religion.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the International Relations major consists of the successful completion of POLI 497 Senior Research Seminar. The grade for the Senior Capstone Experience is based on the grade in POLI 497 Senior Research Seminar.

MATHEMATICS

There are two majors in the Department of Mathematics and Computer Science, a major in Mathematics and a major in Computer Science. The information in this section refers only to the mathematics major and minor.

Students entering Hendrix have four options for a first mathematics course:

MATH 110 *Mathematics in a Global Context*,
MATH 115 *Mathematics in Contemporary Issues*,
MATH 120 *Functions and Models*, and
MATH 130 *Calculus I*.

MATH 130 *Calculus I* (QS, NS) contains standard topics in beginning calculus. It is required for chemistry, computer science, mathematics, and physics majors and recommended for all students considering majors/careers in natural sciences, medicine, or economics.

MATH 120 *Functions and Models* (QS) deals with the elementary functions, graphs, and equations and considers their applications. Its purpose is to provide the necessary background for calculus. Students who do not intend to take calculus should consider other alternatives (MATH 110 and MATH 115).

MATH 110 *Mathematics in a Global Context* (HP, QS) is designed for students with no calculus background. It studies mathematical ideas in historical contexts (e.g.

ancient Near East, Greece, China, medieval Islam, Europe) some of which are introduced in LBST 100. It is suitable for students considering a major in humanities or social sciences (except business/economics).

MATH 115 *Mathematics in Contemporary Issues* (CW, QS, SB) studies applications of mathematics in contemporary social contexts. The course does not require heavy use of algebraic techniques. It is suitable for students considering a major in social sciences (except business/economics) or humanities.

The department will recommend one or more of the above courses for each entering student. The department's recommendation is based on a review of the student's record and is provided in the student's permanent folder, on file in the Office of the Registrar. The information in the record is often insufficient for making a recommendation. The guidelines above are given to help the advisor and the student to make a good choice based on the student's interests and goals.

Students scoring 4 or 5 on the AP Calculus Exam (AB) and those scoring 3 or higher on the AP Calculus Exam (BC) will receive credit for MATH 130 *Calculus I*. Students scoring 4 or 5 on the A.P. Calculus Exam (BC) will receive credit for both MATH 130 *Calculus I* and MATH 140 *Calculus II*.

Special consideration is made for students with transfer credit. A student who studied calculus before enrolling in Hendrix College may receive course credit for MATH 130 *Calculus I* if he or she takes MATH 140 *Calculus II*, with consent of the instructor, and passes it with a grade of "C" or better. Alternatively, a student may receive course credit for MATH 140 *Calculus II* if he or she takes MATH 230 *Multivariable Calculus* or MATH 260 *Differential Equations*, with consent of the instructor, and passes it with a grade of "C" or better. Faculty advisors are urged to direct further questions by the student to mathematics faculty.

Students enrolled in MATH 130 *Calculus I* and who experience unexpected serious difficulties early in the course may be allowed to change back into a lower level mathematics course.

Students enrolled in MATH 130 *Calculus I* and MATH 140 *Calculus II* must obtain a program-mable graphing calculator. Any brand or model will do; however, the TI-83 or the TI-86 will be used for classroom demonstrations.

Major

Eleven courses distributed as follows:

- MATH 130 *Calculus I*
- MATH 140 *Calculus II*
- MATH 270 *Linear Algebra*
- MATH 290 *Introduction to Advanced Mathematics*
- One of the following two-course sequences:
 - MATH 320 *Algebra* and MATH 420 *Seminar in Algebra*
 - MATH 350 *Real Analysis* and MATH 450 *Seminar in Analysis*

- Two courses chosen from the following:
 - Any mathematics course numbered 230 or above
 - CSCI 151 *Data Structures and Object-oriented Development*
 - CSCI 385 *Scientific Computing*
 - CSCI 380 *Theory of Computation*
 - ECON 300 *Intermediate Microeconomics*
 - ECON 430/530 *Management Science*
 - PHYS 380 *Classical Mechanics*
- Three additional courses chosen from the following:
 - Any mathematics course numbered 300 or above
 - CSCI 380 *Theory of Computation*

Each senior mathematics major must also enroll in the year-long non-credit MATH 497 *Senior Seminar*. A working knowledge of a high-level computer language such as Python or Java is strongly recommended.

Minor in Mathematics

The minor in Mathematics consists of the following 6 courses:

- MATH 130 *Calculus I*
- MATH 140 *Calculus II*
- MATH 240 *Discrete Mathematics*
- or
- MATH 270 *Linear Algebra*
- MATH 290 *Introduction to Advanced Mathematics*
- one mathematics course numbered 230 or above
- one mathematics course numbered 300 or above

Minor in Applied Mathematics

The minor in Applied Mathematics consists of the following 7 courses:

- CSCI 150 *Foundations of Computer Science*
- MATH 130 *Calculus I*
- MATH 140 *Calculus II*
- At least two courses chosen from:
 - CSCI 385 *Scientific Computing*
 - MATH 310 *Probability and Statistics*
 - MATH 365 *Mathematical Models*
- Up to two courses chosen from:
 - MATH 230 *Multivariable Calculus*
 - MATH 260 *Differential Equations*
 - MATH 270 *Linear Algebra*
 - Other courses such as MATH 490 *Advanced Topics* may be approved by the department when appropriate

COURSE PLANNING:

- A student interested in a mathematics major is advised to take MATH 130 *Calculus I* and MATH 140 *Calculus II* during the first year, provided the student has received an appropriate placement recommendation.
- If the department's recommendation is that the student should take MATH 120 *Functions and Models*, the student considering a mathematics major should take MATH 120 *Functions and Models*, and then MATH 130 *Calculus I*. In that case, MATH 140 *Calculus II* may be taken during the sophomore year.
- Students scoring 4 or 5 on the AP Calculus Exam (AB) and those scoring 3 or higher on the AP Calculus Exam (BC) will receive credit for MATH 130 *Calculus I*. Students scoring 4 or 5 on the AP Calculus Exam (BC) will receive credit for both MATH 130 *Calculus I* and MATH 140 *Calculus II*. A student who studied calculus before enrolling in Hendrix College may receive course credit for MATH 130 *Calculus I* if he or she takes MATH 140 *Calculus II*, with consent of the instructor, and passes it with a grade of "C" or better. Alternatively, a student may receive course credit for MATH 140 *Calculus II* if he or she takes MATH 230 *Multivariable Calculus* or MATH 260 *Differential Equations* with consent of the instructor and passes it with a grade of "C" or better.
- The sophomore year schedule of a mathematics major should include MATH 270 *Linear Algebra* and MATH 290 *Introduction to Advanced Mathematics*, (both required for the major) and would preferably include at least one other mathematics course listed at the 200-level or a computer science course.

Those preparing for graduate studies in mathematics should take MATH 230 *Multivariable Calculus*, MATH 260 *Differential Equations*, MATH 320 *Algebra*, MATH 350 *Real Analysis*.

Four-year course schedule for the Mathematics major:

A typical sequence of courses for a four-year mathematics major appears below. A number of variations are possible. As MATH 497 is a non-credit seminar, additional MATH electives may be taken in the last year without unduly burdening the schedule. Note that most courses at or above the 300-level are offered in alternate years.

| | FALL | SPRING |
|--------------------|-------------------------------|-------------------------------|
| First Year | MATH 130 | MATH 140 |
| Second Year | MATH 270 MATH 260 | MATH 290 MATH elective |
| Third Year | MATH 320/350 MATH elective | MATH 420/450 MATH elective |
| Fourth Year | MATH 497 MATH elective | MATH 497 |

Modified four-year course schedule for the Mathematics major:

For students who take MATH 120 *Functions and Models* in the first semester, the following four-year schedule is a viable alternative.

| | FALL | SPRING |
|-------------|---------------|---------------|
| First Year | MATH 120 | MATH 130 |
| Second Year | MATH 140 | MATH 290 |
| | MATH 270 | MATH elective |
| Third Year | MATH 320/350 | MATH 420/450 |
| | MATH elective | MATH elective |
| Fourth Year | MATH 497 | MATH 497 |
| | MATH elective | MATH elective |

Modified schedule for the Mathematics major with Study Abroad:

For students who plan to study abroad for one semester, the following sample schedule might be helpful in course planning. Two upper-level MATH electives are typically offered each semester; hence, this schedule is easily adapted to a Fall study abroad semester.

| | FALL | SPRING |
|-------------|---------------|-------------------|
| Third Year | MATH elective | [studying abroad] |
| | MATH elective | |
| Fourth Year | MATH 497 | MATH 497 |
| | MATH 320/350 | MATH elective |
| | MATH elective | |

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for mathematics majors consists of a year-long undergraduate research project and active participation in the non-credit MATH 497 *Senior Seminar*.

MEDICAL HUMANITIES

Minor

6 courses distributed as follows:

- 2 courses from the Humanities:
 - ENGL 249 *Literature and/as Illness*
 - PHIL 225 *Ethics and Medicine*
 - PHIL 350 *Philosophy of Science*
 - RELI 262 *Science and Religion*
- 2 courses from the Social Sciences:
 - ANTH/ASIA 205 *Food, Nutrition and Health in Asia*
 - ANTH/ASIA 305 *Asian Medical Traditions*
 - HIST 227 *Medicine and Disease in Pre-Modern Europe*
 - HIST 339 *Epidemics and Society*

PSYC 351 *Health Psychology*
SOCI 380 *Medicine and Culture*

- 2 additional courses from the above lists.

MUSIC

Students interested in music may take the following:

- MUSI 100 *Music Fundamentals* (introduces and develops music reading skills)
- MUSI 101 *Introduction to Music Studies* (for any student interested in the music major or minor)
- MUSI 150 *Introduction to Western Classical Music* (for all students regardless of background)
- MUSI 180 *Film Music*
- MUSI 201 *Musicianship Skills* (for students with an interest in music as a major or minor; students must successfully complete or test out of MUSI 100 in order to enroll in MUSI 201)
- MUSI 202 *Introduction to Diatonic Harmony and Counterpoint* (Students must successfully complete or test out of MUSI 201 in order to enroll in MUSI 202)
- MUSI 230 *History of Jazz* (for all students regardless of background)
- MUSI 250 *Introduction to Opera* (for all students regardless of background)
- MUSI 260 *Classical and Popular Music since 1900* (for all students regardless of background)
- MUSI 270 *Introduction to World Music* (for all students regardless of background)
- MUSI 280 *Topics in Music* (for all students regardless of background)

Major

- MUSI 101 *Introduction to Music Studies*
- MUSI 201 *Musicianship Skills* (MUSI 100 or the placement exam is a prerequisite for this course)
- MUSI 202 *Introduction to Diatonic Harmony*
- MUSI 301 *Introduction to Chromatic Harmony and Twentieth-Century Practices*
- MUSI 302 *Form and Analysis in Western Music*
- MUSI 401 *Medieval, Renaissance, and Baroque Music*
- MUSI 402 *Classic, Romantic, and Modern Music*
- MUSI 497 *Senior Seminar*
- four course credits worth of music electives
- six semesters of applied music in the major instrument or voice (either MUSA 300 or MUSA 400) (may be used to satisfy a music elective) and
- six semesters of the appropriate ensemble (MUSA 200) (may be used to satisfy a music elective);
- six semesters of recital attendance (MUSA 100)
- proficiency exam in piano and keyboard harmony (MUSA PP)

- proficiency exam in solfege and sight-singing (MUSA SS)
- proficiency exam in aural skills (MUSA AS)

Minor

- MUSI 101 *Introduction to Music Studies*
or
MUSI 150 *Introduction to Western Classical Music*
- MUSI 201 *Musicianship Skills* (MUSI 100 or the placement exam is a prerequisite for this course)
- MUSI 202 *Introduction to Diatonic Harmony*
- One music history/literature class from the following:
 - MUSI 180 *Film Music*
 - MUSI 230 *History of Jazz*
 - MUSI 250 *Introduction to Opera*
 - MUSI 260 *Classical and Popular Music since 1900*
 - MUSI 270 *Introduction to World Music*
 - MUSI 280 *Topics in Music*
 - MUSI 401 *Medieval, Renaissance, and Baroque Music*
 - MUSI 402 *Classic, Romantic, and Modern Music*
- one course credit of private applied study (either MUSA 300 or MUSA 400)
- one elective (MUSA 300/MUSA 400 classes may satisfy the elective requirement)

COURSE PLANNING:

The major in music may be completed in three years; however, most music majors begin the major in the first year and spread their requirements over four years. Because of the sequential nature of the courses and the fact that some required courses are offered only every other year, it is NOT possible to begin the music major in the third year and still complete a Hendrix degree in four years.

The Music Department recommends that music majors who plan to study abroad during their time at Hendrix begin the music major during the first year of study.

Students considering a major in music are strongly advised to take MUSI 101 and 201, (if needed, applied lessons, and ensembles) during the first year.

The curriculum for the music major or minor is divided into three areas: 1. Theory and composition, 2. History and literature, and 3. Applied lessons and ensembles.

The sequence MUSI 100, 201, 202, 301, 302, and electives 370, 380, 430, and 440 make up the theory and composition area.

The sequence MUSI 101, 401, 402, 497 and electives 180, 230, 250, 260, 270, and 280 make up the history and literature area.

Courses in the series MUSA 200, 300 and 400 make up the applied area and may be repeated every semester to generate complete course credits.

| | FALL | SPRING |
|--|---|---|
| First Year | Lessons Ensemble Recital Attendance | MUSI 201 <i>Basic Musicianship Skills</i> MUSI 101 <i>Intro to Music Studies</i> Lessons Ensemble Recital Attendance |
| Second Year | MUSI 202 <i>Introduction to Diatonic Harmony and Counterpoint</i> Lessons Ensemble Recital Attendance | MUSI 301 <i>Introduction to Chromatic Harmony and Twentieth Century Practices</i> Lessons Ensemble Recital Attendance |
| Second Year Alternate (for years in which MUSI 301 and 302 are not offered) | MUSI 202 <i>Introduction to Diatonic Harmony and Counterpoint</i> MUSI 401 <i>Medieval, Renaissance and Baroque Music</i> Lessons Ensemble Recital Attendance | MUSI 301 <i>Introduction to Chromatic Harmony and Twentieth Century Practices</i> MUSI 402 <i>Classic, Romantic, and Modern Music</i> Lessons Ensemble Recital Attendance |
| Third Year | MUSI 302 <i>Form and Analysis in Western Music</i> MUSI 401 <i>Medieval, Renaissance and Baroque Music</i> Lessons Ensemble Recital Attendance | MUSI 402 <i>Classic, Romantic, and Modern Music</i> Lessons Ensemble Recital Attendance |
| Third year Alternate (for years in which MUSI 301 and 302 are not offered) | Lessons Ensemble Recital Attendance | Lessons Ensemble Recital Attendance |
| Fourth Year | MUSI 497 <i>Senior Seminar</i> | Elective (if needed) |
| Fourth year Alternate (for years in which MUSI 401 and 402 are not offered) | MUSI 497 <i>Senior Seminar</i> MUSI 302 <i>Form and Analysis in Western Music</i> | Elective (if needed) |

Notes: Concurrent enrollment in piano lessons during the theory sequence is required until the piano proficiency is passed. No additional fee is charged for these lessons.

The requirement for MUSI 201 may be met by passing the Hendrix Theory Placement Exam given during orientation week in the fall. Credit for MUSI 201 will be given only upon successful completion of MUSI 202.

Students may not pre-register for MUSA courses; they may enroll in lessons and ensembles only with the permission of the appropriate teacher or director. Permission must be obtained during the first week of classes each semester. Policies and timetables for adding, dropping and withdrawing from lessons and ensembles are the same as those for all other courses. See the *Catalog* for policies concerning the granting of grades and credit for lessons and ensembles.

CHOIR AND VOICE LESSONS: Dr. Andrew Morgan

PIANO, ORGAN, AND ACCOMPANYING: Dr. John Krebs/Dr. Norman Boehm

CHAMBER ORCHESTRA AND STRING LESSONS: Dr. Karen Griebeling

WIND ENSEMBLE (BAND), JAZZ ENSEMBLE, AND WOODWIND, BRASS, AND PERCUSSION LESSONS: Dr. Gretchen Renshaw

The requirement for four music electives in the music major may be met by successfully completing 4 course credits worth of MUSA 200 and 300 courses or 2 or more course credits of MUSA 200 and 300 courses in combination with elective MUSI courses.

Proficiency Exams

All music majors are required to pass proficiency exams in piano, solfege, and aural skills. Majors are required to attempt these exams no later than the semester in which MUSI 302 is completed. In addition, students are required to study piano each semester during the theory sequence until this part of the requirement is met, at no additional fee. Students who are unable to pass proficiencies in any of these areas are required to take the exams each successive semester until they are successfully completed. No grade will be awarded for MUSI 302 until all three examinations are passed.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the music major consists of a comprehensive examination and a senior project. The comprehensive exam is the standardized Major Field Achievement Test (MFT). The senior project may take the form of a research paper, a lecture recital, a portfolio of original compositions, or a recital accompanied by written program notes. Preparation for this project is a part of MUSI 497 *Senior Seminar*. In the space reserved for the Senior Capstone Experience, transcripts for music majors will contain two grades, a grade received for the MFT and a grade received for the senior project.

NEUROSCIENCE/STUDY OF THE MIND

Students wishing to minor in Neuroscience/Study of the Mind should first choose a concentration and then plan ahead paying careful attention to the schedule of courses offered each year. Several of the courses required for the minor including BIOL 101 *Concepts: The Brain*,

BIOL 325 *Cellular and Molecular Neuroscience*, CSCI 335 *Artificial Intelligence*, and PHIL 390 *Philosophy of Mind* are currently only being offered every other year.

Minor

Six (6) courses distributed as follows:

CORE REQUIREMENTS:

1. PSYC 360 *Behavioral Neuroscience*
or
PSYC 363 *Cognitive Neuroscience*
2. PHIL 390 *Philosophy of Mind*

NEUROSCIENCE CONCENTRATION

1. BIOL 150 *Cell Biology*
2. CHEM 110 *General Chemistry I: Chemical Structure and Properties*
3. BIOL 325 *Cellular and Molecular Neuroscience*
4. One further course chosen from the following:
 - PHIL 350 *Philosophy of Science*
 - PSYC 360 or 363 (the one not taken for Core Requirement 1.)
 - PSYC 320 *Cognitive Psychology*
 - PSYC 335 *Sensation and Perception*
 - CSCI 335 *Artificial Intelligence*

STUDY OF THE MIND CONCENTRATION

1. BIOL 101 *Concepts: The Brain* or BIOL 150 *Cell Biology*
2. Three further courses chosen from the following:
 - BIOL 325 *Cellular and Molecular Neuroscience*
 - PHIL 350 *Philosophy of Science*
 - PSYC 360 or 363 (the one not taken for the Core Requirement 1.)
 - PSYC 320 *Cognitive Psychology*
 - PSYC 335 *Sensation and Perception*
 - CSCI 335 *Artificial Intelligence*

Students may not double-count more than two courses from their major toward the Neuroscience/Study of the Mind minor.

COURSE PLANNING:

Students wishing to minor in Neuroscience / Study of the Mind should first choose a concentration and then plan ahead paying careful attention to the schedule of courses offered each year. Several of the courses required for the minor including BIOL 101 *Concepts: The Brain*, BIOL 325 *Cellular and Molecular Neuroscience*, CSCI 335 *Artificial Intelligence*, and PHIL 390 *Philosophy of Mind* are currently only being offered every other year. Students should also be aware that some courses within a department are sequenced and must be taken in numerical order but courses in different departments can be taken out of numerical order. For example, BIOL 150 *Cell Biology* must be taken before BIOL 325 *Cellular and Molecular Neuroscience*

but BIOL 101 *Concepts: The Brain* can be taken after PHIL 390 *Philosophy of Mind* (a junior level course).

PHILOSOPHY

General Comments

Classes for first-year students:

First-year students are encouraged to take any 200-level philosophy course whose topic interests them.

Classes for non-majors:

Any philosophy course except PHIL 487 and PHIL 497 may be taken by a properly interested student if there is no stated prerequisite or by obtaining consent of the course instructor.

Major in Philosophy

Eleven courses distributed as follows:

- PHIL 285 *Ancient Philosophy*
- PHIL 302 *Seventeenth and Eighteenth Century Philosophy*
- PHIL 306 *Nineteenth Century Philosophy*
- PHIL 205 *Critical Reasoning*
OR
PHIL 245 *Introduction to Logic*
- One ethics course from:
 - PHIL 201 *Ethics in the face of Poverty*
OR
PHIL 215 *Ethics and Society*
OR
PHIL 225 *Ethics and Medicine*
OR
PHIL 270 *Environmental Philosophy*
OR
PHIL 315 *Ethics in Relation to Friend, Kin and Community*
OR
PHIL 330 *Ethical Theory*
- PHIL 487 *Senior Major Seminar* or PHIL 497 *Senior Thesis*
- Five other philosophy courses, at least three of which must be 300-level or above. Topics not covered in courses described below are available to majors through individually arranged independent studies.

Minor in Philosophy

- PHIL 285 *Ancient Philosophy*
- PHIL 302 *Seventeenth and Eighteenth Century Philosophy*
- PHIL 306 *Nineteenth Century Philosophy*

Three other philosophy courses, at least one of which must be 300-level or above.

COURSE PLANNING:

Outline of a typical major, beginning the sophomore year:

| | FALL | SPRING |
|-------------|--|---|
| Second Year | PHIL 285 <i>Ancient Philosophy</i> | PHIL 302 <i>17th/18th Century Philosophy</i> |
| Third Year | PHIL 306 <i>19th Century Philosophy</i> PHIL 200/300-level Open | PHIL 200-level Open PHIL 200/300-level Open PHIL 300-level Open |
| | | or |
| Fourth Year | PHIL 300/400-level Open PHIL 487 <i>Senior Major Seminar</i> or PHIL 497 <i>Senior Thesis</i> | PHIL 490 <i>Topics</i> PHIL 300/400-level Open PHIL Open |

Outline of a possible major, beginning the junior year:

| | FALL | SPRING |
|-------------|---|--|
| Third Year | PHIL 285 <i>Ancient Philosophy</i> PHIL 200-level Open PHIL 200-level Open | PHIL 302 <i>17th/18th Century Philosophy</i> PHIL 200/300-level Open |
| Fourth Year | PHIL 306 <i>19th Century Philosophy</i> PHIL 300/400-level Open PHIL 487 <i>Senior Major Seminar</i> or PHIL 497 <i>Senior Thesis</i> | PHIL 300-level Open PHIL 300-level Open or PHIL 490 <i>Topics</i> |

SENIOR CAPSTONE EXPERIENCE:

In the fall semester of their senior year, majors take either PHIL 487 *Senior Major Seminar* or PHIL 497 *Senior Thesis*. See course descriptions for details.

Notes for philosophy majors:

Students intending to continue their study of philosophy in graduate school should work closely with their advisor to develop an appropriate course of study. In general, it is recommended that one include PHIL 330 *Ethical Theory* and PHIL 245 *Logic* in his or her program

of studies. Also one should sample both the Continental European Tradition, by taking courses such as PHIL 240 or a Topics course dealing with this tradition, and the British American Tradition, by taking courses such as PHIL 380, PHIL 385, or PHIL 390.

Majoring in philosophy can provide excellent preparation for students planning to seek graduate or professional degrees in other fields, including law, medicine, journalism, business administration, and others. Furthermore, a major in philosophy is an excellent choice for students who do not plan to seek further graduate training but desire a major that will prepare them to lead intellectually rich and reflective lives. Such students are encouraged to work closely with their advisor in order to develop a curricular plan consonant with their particular interests.

Philosophy and Religious Studies Major

A total of ten courses in philosophy and religious studies to include:

- no fewer than four courses in philosophy
 - two must be chosen from
 - PHIL 285 *Ancient Philosophy*
 - PHIL 302 *Seventeenth and Eighteenth Century Philosophy*
 - PHIL 306 *Nineteenth Century Philosophy*
- no fewer than four courses in religious studies
- PHIL 370/RELI 370 *Philosophy of Religion*
- PHIL 487 *Senior Major Seminar* or PHIL 497 *Senior Thesis* or RELI 497 *Senior Colloquium*
- at least four other courses 200-level or above.

Philosophy and Religious Studies majors cannot major or minor in either philosophy or religious studies.

COURSE PLANNING:

In consultation with their advisors, Philosophy and Religious Studies majors should work out a two or three year plan according to their area of emphasis. It is perhaps advisable to take at least one of the two required courses from the history of philosophy sequence during one's sophomore year and to take PHIL 370 (or RELI 370) during one's junior year. PHIL 487, PHIL 497, or RELI 497 must be taken the senior year. The remaining six electives, four of which must be 200-level or above, may be spread across the years according to the student's needs and interests. Remember that one's total set of ten classes for the major must include at least four from each department.

PHYSICS

Students who plan to take only one physics course may take any of the following, based on interest:

PHYS 100 *Introductory Topics in Physics*

PHYS 110 *Concepts of Space, Time and Reality* (no problem-solving)

PHYS 135 *Robotics Exploration Studio*

PHYS 160 *Astronomy*

PHYS 210 *General Physics I*

PHYS 211 *General Physics* (no lab)

PHYS 230 *General Physics I (Calculus-based)*

PHYS 235 *General Physics I (Workshop)*

Students who plan to take two courses in physics may take the following:

PHYS 210 and 220 *General Physics I and II*

(If the student does not plan to take calculus.)

PHYS 230 and 240 *General Physics I and II (Calculus-based)*

(If the student has had or plans to take Calculus I and Calculus II concurrently.)

PHYS 235 and 245 *General Physics I and II (Workshop)*

(If the student has had or plans to take Calculus I and Calculus II concurrently.)

These courses are recommended for students planning to take more courses in the physical sciences.) Students planning to take more than two physics courses may take the following:

MATH 130 *Calculus I*

MATH 140 *Calculus II*

PHYS 230 and 240 *General Physics I and II (Calculus-based)*

or PHYS 235 and 245 *General Physics I and II (Workshop)*

Students who plan to participate in the 3-2 Combined Plan Engineering Program, must take the following courses in their first year:

MATH 130 *Calculus I*

MATH 140 *Calculus II*

PHYS 230 and 240 *General Physics I and II (Calculus-based)*

or PHYS 235 and 245 *General Physics I and II (Workshop)*

Major

Fourteen (14) courses distributed as follows:

Physics (9)

- PHYS 210 *General Physics I*

or

PHYS 230 *General Physics I (Calculus-based)*

or

PHYS 235 *General Physics I (Workshop)*

- PHYS 220 *General Physics II*

or

PHYS 240 *General Physics II (Calculus-based)*

or

PHYS 245 *General Physics II (Workshop)*

- PHYS 305 *Vibrations and Waves*
- PHYS 315 *Modern Physics*
- PHYS 320 *Electrodynamics*
- PHYS 330 *Quantum Mechanics*
- PHYS 340 *Electronics*
- PHYS 370 *Thermal Physics*
- PHYS 380 *Classical Mechanics*

Mathematics (3)

- MATH 130 *Calculus I*
- MATH 140 *Calculus II*
- MATH 260 *Differential Equations*

Chemistry (1)

- CHEM 110 *General Chemistry I: Chemical Structure and Properties*
OR
CHEM 150 *Accelerated General Chemistry*

Electives (1)

- CHEM 120 *General Chemistry II*
- CSCI 150 *Foundations of Computer Science*
- CSCI 151 *Data Structures and Object-Oriented Development*
- CSCI 385 *Scientific Computing*
- EDUC 290 *Science in Personal and Social Perspectives*
- MATH 230 *Multivariable Calculus*
- MATH 270 *Linear Algebra*
- PHYS 450 *Directed Research*
- PHYS 490 *Topics in Physics*

Minor

- PHYS 210 *General Physics I*
OR
PHYS 230 *General Physics I (Calculus-based)*
OR
PHYS 235 *General Physics I (Workshop)*
- PHYS 220 *General Physics II*
OR
PHYS 240 *General Physics II (Calculus-based)*
OR
PHYS 245 *General Physics II (Workshop)*
- PHYS 305 *Vibrations and Waves*
- PHYS 315 *Modern Physics*
- MATH 130 *Calculus I*
- MATH 140 *Calculus II*
- MATH 260 *Differential Equations*

General Comments

1. The department recommends that first-year students, or anyone potentially interested in pursuing a physics major, enroll in one of the calculus-based physics sequences; PHYS 230/240 or PHYS 235/245; rather than the algebra-based sequence.
2. PHYS 230/240 *General Physics I/II* (calculus-based) is taught in a traditional format with three 50-minute lecture periods and a 2-hour 50-minute lab per week. PHYS 235/245 *General Physics I/II* (workshop) employs a new pedagogy wherein the student spends the entire time in lab working in small groups and discovering the laws of physics through guided activities. It meets three times per week for 1-hour 50-minutes at a time.
3. The sequence of courses for a physics major is designed so that a student declaring a physics major in the first year can complete the requirements in three years. This creates enough flexibility for the student to take other physics electives or independent study in the senior year.
4. A first-year schedule for a student undecided between a major in chemistry or in physics should include some of the required introductory courses from both departments.
5. Students undecided between a mathematics and a physics major should take the required courses for the two majors in the first year and the fall semester of the second year.
6. The department recommends that physics majors take the GRE at the end of the fall term of the senior year to satisfy the departmental comprehensive examination requirement. Even though taking a departmental examination also satisfies the comp requirement, we highly recommend trying the GRE first.

COURSE PLANNING:

Table I presents a typical course schedule for the student planning to take four years to finish the physics major.

Table I

| | FALL | SPRING |
|-------------|------------------------------------|------------------------------------|
| First Year | MATH 130 PHYS 210 or 230 or 235 | MATH 140 PHYS 220 or 240 or 245 |
| Second Year | PHYS 305 CHEM 110 MATH 260 | PHYS 315 CHEM 120 |
| Third Year | PHYS 330 or 370 | PHYS 340, PHYS 320 or 380 |
| Fourth Year | PHYS 330 or 370 | PHYS 320 or 380 |

Notes:

Calculus I should be taken prior to or concurrently with PHYS 230 *General Physics I (calculus-based)*, and Calculus II should be taken prior to or concurrently with PHYS 240 *General Physics II (calculus-based)*. Topics courses and research may be taken in the third and fourth years.

Table II presents a course schedule of a student planning to finish the physics major in three years.

Table II

| | FALL | SPRING |
|-------------|--|--|
| First Year | MATH 130 PHYS 210 or 230 or 235 CHEM 110 | MATH 140 PHYS 220 or 240 or 245 CHEM 120 |
| Second Year | MATH 260 PHYS 305 PHYS 370 | PHYS 315 PHYS 320 or 380 PHYS 340 |
| Third Year | PHYS 330 PHYS 370 | PHYS 320 or 380 |

Note:

PHYS 320 and PHYS 370 are offered only in even numbered years, PHYS 380 is offered only during odd numbered years. All other courses are offered every year.

Pre-Engineering Program

Student interested in the Pre-engineering (3-2) program should follow Table II for the first year. Students interested in mechanical, electrical or civil engineering should also follow the second and third years of Table II. Students interested in chemical engineering should major in chemistry.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the physics major consists of a comprehensive examination. Students have two options for the examination. The first option is to take the GRE Physics test administered by the Educational Testing Services (ETS). The second option is to take an exam given by the department faculty. The grade for the senior capstone experience is based on student performance on one of these examinations.

POLITICS

The Politics and International Relations Department encourages students interested in pursuing a major or minor in the discipline to take POLI 100 *Issues in Politics* during their first year. All other Politics courses at the 100- or 200-level are also appropriate for first-year students from the time of their arrival at the College.

Major

Eleven courses distributed as follows:

- POLI 100 *Issues in Politics*
- MATH 215 *Statistical Analysis*
- POLI 400 *Research Methods*
- POLI 497 *Senior Research Seminar*
- Political Theory: TWO from:

- POLI 240 *History of Western Political Thought*
- POLI 245 *American Political Thought*
- POLI 285 *Topics in Political Theory*
- POLI 300 *Feminist Political Thought*
- POLI 410 *Advanced Topics in Political Theory*
- PHIL 285 *Plato and Aristotle*
- PHIL 360 *Social and Political Philosophy*
- **American Politics: TWO from:**
 - POLI 130 *American State and Local Government*
 - POLI 205 *Southern Politics*
 - POLI 220 *American Political Parties and Elections*
 - POLI 224 *Family Law*
 - POLI 226 *Social Deviance, Crime and Punishment*
 - POLI 230 *Public Administration*
 - POLI 235 *Public Policy*
 - POLI 290 *Topics in American Politics*
 - POLI 305 *Arkansas Politics: Seminar*
 - POLI 306 *Arkansas Politics: Practicum*
 - POLI 310 *American Presidency*
 - POLI 320 *Criminal Law*
 - POLI 321 *American Constitutional Law: The Federal System*
 - POLI 322 *American Constitutional Law: Individual Rights*
 - POLI 340 *U.S. Congress*
 - POLI 365 *Topics in Public Policy*
 - POLI 380 *Gender, Sexuality, and American Politics*
 - POLI 390 *Race and American Politics*
 - POLI 420 *Advanced Topics in American Politics*
- **Comparative/Global Politics: TWO from:**
 - POLI 244 *Topics in Global Politics*
 - POLI 250 *History of the International System*
 - POLI 260 *Political Economy*
 - POLI 272 *The Politics of Central and Eastern Europe*
 - POLI 273 *Contemporary Global Issues*
 - POLI 281 *U.S. Foreign Policy*
 - POLI 282 *Foreign Policy Analysis*
 - POLI 283 *Model United Nations*
 - POLI 325 *International Law and Organizations*
 - POLI 326 *International Human Rights*
 - POLI 341 *The World of Elections*
 - POLI 355 *Advanced International Relations*
 - POLI 376 *Democracy, Development and Violence*
 - POLI 440 *Advanced Topics in International Relations*
- **Elective:** One additional courses numbered 200 and above.

Minor

- POLI 100 Issues in Politics
- One course each from the Political Theory, American Politics, and Comparative/Global Politics subfields.
- two other courses in Politics numbered 200 and above.

COURSE PLANNING:

All students should take department courses at the appropriate level, although freshers may take 200-level courses beginning in the first semester, if desired. Even though each POLI 100 course is on a different issue, only one POLI 100 course may be taken for credit. While most courses have no prerequisites, there are some important exceptions. POLI 250 *History of the International System* is a prerequisite for POLI 325 *International Law & Organizations*; POLI 355 *Advanced International Relations*; and POLI 376 *Democracy, Development and Violence*. Both MATH 215 *Statistical Analysis* and POLI 400 *Research Methods* are prerequisites for both POLI 360 *Applied Statistical Analysis* and POLI 497 *Senior Research Seminar*. Students who plan to study abroad their junior year should take MATH 215 and POLI 400 during their sophomore year.

Students should not take POLI 497 before the senior year.

There is not particular “supporting program” for Politics majors.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the politics major consists of the successful completion of POLI 497 *Senior Research Seminar*. The grade for the Senior Capstone Experience is based to a great degree on the grade in POLI 497 *Senior Research Seminar*.

PSYCHOLOGY

The curriculum in the Department of Psychology is designed to provide an introduction to the subfields within the discipline. Emphasis throughout is on the scientific study of behavior and its underlying cognitive and biological processes.

Students with little or no background in psychology should take PSYC 110 *Introduction to Psychology*.

Students who have had a year-long course in psychology while in high school may wish to skip Introduction to Psychology and take either PSYC 230 *Social Psychology*, PSYC 240 *Childhood and Adolescence* or PSYC 245 *Adult Development and Aging*. Ordinarily, first-year students should not enroll in PSYC 290 *Statistics*, PSYC 295 *Research Methods*, or PSYC 260 *Human Sexuality*.

Major

A psychology major requires ten courses in psychology, including PSYC 290 *Statistics* and PSYC 295 *Research Methods*.

Other courses counted toward the major must be distributed in the following manner:

- Two courses from Cluster A (at least one of which must include a laboratory):
 - PSYC 165 *Comparative Animal Behavior in the Tropics w/lab*
 - PSYC 220 *Brain and Behavior*
 - PSYC 260 *Human Sexuality*
 - PSYC 280 *Introduction to Psychopharmacology*
 - PSYC 300 *Comparative Animal Behavior w/lab*
 - PSYC 320 *Cognitive Psychology w/lab*
 - PSYC 323 *Human Memory*
 - PSYC 330 *Learning*
 - PSYC 335 *Sensation and Perception*
 - PSYC 355 *Evolutionary Psychology*
 - PSYC 360 *Behavioral Neuroscience w/lab*
 - PSYC 366 *Behavioral Endocrinology*
- Two courses from Cluster B:
 - PSYC 230 *Social Psychology*
 - PSYC 240 *Childhood and Adolescence*
 - PSYC 245 *Adult Development and Aging*
 - PSYC 255 *Stereotyping and Prejudice*
 - PSYC 352 *Social Cognition*
 - PSYC 370 *Personality*
- One course from Cluster C:
 - PSYC 380 *Psychology Practicum*
 - PSYC 390 *History and Systems*
 - PSYC 400 *Psychology of Gender*
 - PSYC 480 *Advanced Research*
 - PSYC 497 *Senior Seminar*
- Electives: Three courses from psychology listings at any level.
- A minimum of four of the ten courses must be at the 300-level or above.

Minor

Six courses in psychology, at least three of which must be at the 300-level or above.

COURSE PLANNING:

If students do not have a good background in psychology, the first psychology course to take is PSYC 110 *Introduction to Psychology*. A second course should be chosen from PSYC 230 *Social Psychology*, PSYC 240 *Childhood and Adolescence*, or PSYC 245 *Adult Development and Aging*. Students who major in psychology often take one of these 200-level courses the first year. It should be emphasized, however, that students who have had a year-long course in psychology while in high school may wish to skip *Introduction to Psychology* and take either PSYC 230 *Social Psychology*, PSYC 240 *Childhood and Adolescence*, or PSYC 245 *Adult Development and Aging*. First-year students may also wish to take PSYC 220 *Brain and Behavior*.

For Psychology majors, the next two courses should be PSYC 290 *Statistics* and PSYC 295 *Research Methods* (a laboratory course). Both Statistics and Research Methods are required for the major and if possible should be taken during the sophomore year. Ordinarily, first-year students are discouraged from enrolling in either of these courses.

After taking the introductory and foundational courses listed above, students are ready to take courses that explore psychological topics in depth. These courses are:

- PSYC 260 *Human Sexuality*
- PSYC 280 *Introduction to Psychopharmacology*
- PSYC 300 *Comparative Animal Behavior (Lab)*
- PSYC 320 *Cognitive Psychology (Lab)*
- PSYC 323 *Human Memory*
- PSYC 330 *Learning*
- PSYC 335 *Sensation and Perception*
- PSYC 340 *Psychological Assessment*
- PSYC 351 *Health Psychology*
- PSYC 352 *Social Cognition*
- PSYC 355 *Evolutionary Psychology*
- PSYC 360 *Behavioral Neuroscience (Lab)*
- PSYC 365 *Emotions*
- PSYC 366 *Behavioral Endocrinology*
- PSYC 367 *Psychology and Law*
- PSYC 370 *Personality*
- PSYC 385 *Abnormal Psychology*

Finally, courses that are designed for students with a good background in psychology are:

- PSYC 380 *Psychology Practicum*
- PSYC 390 *History and Systems*
- PSYC 400 *Psychology of Gender*
- PSYC 480 *Advanced Research*
- PSYC 497 *Senior Seminar*

These courses are typically taken in the junior or senior year.

Sequencing of Courses:

1. Statistics is a prerequisite for Research Methods.

2. Research Methods is a prerequisite for most other psychology laboratory courses.

Notes:

1. Students planning to go to graduate schools that require the Psychology portion or the General portion of the GRE are advised to take these tests at the end of the junior year or early in the senior year.
2. Students who have already taken two or more psychology courses at the 200-level or above will not be allowed to take Introduction to Psychology.
3. Students who take PSYC 295 *Research Methods* must take the corresponding lab section. For example, PSYC 295 L1 is the correct lab to accompany PSYC 295 01.
4. PSYC 380 *Psychology Practicum* will not count toward the minor.
5. PSYC 165 *Comparative Animal Behavior in the Tropics* is a summer course appropriate for students at any level.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the psychology major consists of successful completion of a Cluster C course and a comprehensive examination. The examination is the Major Field Test (MFT) in psychology and is intended as an assessment device for senior psychology majors. It consists of 140 multiple-choice items covering the major areas of psychology. The examination is normally taken during the spring semester of the senior year. The grade for the Senior Capstone Experience is based on the MFT standardized score.

RELIGIOUS STUDIES

Religious Studies Major

Ten courses, five of which must be 300-level or above, distributed as follows:

- RELI 110 *The World's Religions: An Introduction*
- A concentration of three courses, selected in consultation with the student's departmental advisor, that achieves a deep coverage of a particular religious tradition or set of related issues in the study of religion. The concentration should cohere in such a way as to define and inform the student's particular interest in a tradition, a topic or a method of studying religion. The concentration must include at least two courses in Religious Studies (one of which must be at the 300 level or above) and may include one course in other related disciplines or interdisciplinary programs (e.g., anthropology, art history, classics, English, gender studies, history, philosophy, politics, sociology). The concentration must be finalized in writing by the end of the year prior to graduation and must be approved at that time by both the student's departmental advisor and the chair of the department. Once the requirements for the concentration have been agreed upon in this manner, no changes may be made to the concentration unless, in extraordinary circumstances, such changes are approved by both the student's advisor and the department chair, in consultation with the department as a whole.
- Four elective courses in Religious Studies demonstrating learning beyond the area of concentration.

- RELI 395 *Approaching the Study of Religion*
- RELI 497 *Senior Colloquium* is the Senior capstone experience

In addition to the courses, an Odyssey project in any category demonstrating engaged learning applicable to the student's concentration in the field of religion, selected in consultation with the student's departmental advisor.

The chair of the department, in consultation with the student's advisor, will determine how transfer credits and courses taken during study abroad will be applied toward departmental requirements.

Philosophy and Religious Studies Major

10 courses distributed as follows:

- no fewer than four courses in philosophy
- 2 must be chosen from
 - PHIL 285 *Ancient Philosophy*
 - PHIL 302 *Seventeenth and Eighteenth Century Philosophy*
 - PHIL 306 *Nineteenth Century Philosophy*
- No fewer than four courses in religious studies
- PHIL 370/RELI 370 *Philosophy of Religion* (may be counted towards the four courses in either philosophy or religious studies.)
- PHIL 487 *Senior Major Seminar* or PHIL 497 *Senior Thesis* or RELI 497 *Senior Colloquium*
- only 2 of the ten courses may be at the 100-level

Philosophy and Religious Studies majors cannot major or minor in either philosophy or religious studies.

* Note that RELI 497 *Senior Colloquium* requires RELI 395 *Approaching the Study of Religion*

Religious Studies Minor

The minor in religious studies consists of six (6) religion courses including two (2) at the 300- 400-level.

COURSE PLANNING (RELIGIOUS STUDIES MAJOR):

Courses appropriate for first-year students

- All 100 or 200-level courses

Courses appropriate for sophomores

- All of the courses listed above
- All 200- and 300-level courses
- 400-level courses only upon consultation with the professors involved. (Some previous work in Religious Studies should ordinarily be taken prior to enrolling in a 400-level course, although exceptional cases are easy to envision.)

Courses appropriate for juniors and seniors

- All courses except RELI 497 *Senior Colloquium*, which is for religious studies or philosophy and religious studies majors only. Students intending to major in Religious Studies should take RELI 395 *Theories and Research in Religion* in the fall semester of their Junior year. In exceptional circumstances (such as for those planning to study abroad), it is possible to take this course during the fall of either the Senior or the Sophomore year.

COURSE PLANNING (PHILOSOPHY AND RELIGIOUS STUDIES MAJOR):

In consultation with their advisors, Philosophy and Religious Studies majors should work out a two or three year plan according to their area of emphasis. It is perhaps advisable to take at least one of the two required courses from the history of philosophy sequence during one's sophomore year and to take PHIL 370 (or RELI 370) during one's junior year. Of course, PHIL 497 or RELI 497 will be taken the senior year. The remaining six electives, four of which must be 200-level or above, may be spread over the years according to the student's needs and interests. Remember, however, that one's total set of ten classes for the major must include at least four from each department.

SENIOR CAPSTONE EXPERIENCE

The Senior Capstone Experience for the religious studies major centers upon the successful completion of RELI 497.

SOCIOLOGY/ANTHROPOLOGY

Students interested in sociology/anthropology may take the following:

SOCI 110 *Introduction to Sociology*

ANTH 100 *Introduction to Cultural Anthropology*

ANTH 102 *Introduction to Archaeology and Physical Anthropology*

And/or any 200- and 300- level sociology or anthropology course without listed prerequisites.

Major

Students may take a major in Sociology/Anthropology with an emphasis in either Sociology or Anthropology. Eleven courses are required for Sociology, five core courses and six electives to be selected from departmental offerings. Twelve courses are required for Anthropology, six core courses and six electives. At least two of the six electives must be from the discipline that is not the major emphasis. Majors in Sociology/Anthropology may not take a minor in Sociology or Anthropology, and may not double major in Sociology and Anthropology.

EMPHASIS IN SOCIOLOGY

Core courses:

- SOCI 110 *Introduction to Sociology*
- SOCI 335 *Sociological Research Methods*
- SOCI 365 *Picturing Society: Readings in Social Thought*
- SOCI 480 *Advanced Research/Practicum*

or

SOCI 497 *Advanced Research and Writing*

- BUSI 250 *Principles of Statistics*

or

MATH 210 *Statistical Analysis*

or

PSYC 290 *Statistics*

Sociology/Anthropology Electives:

Any four additional sociology courses and any two anthropology courses

EMPHASIS IN ANTHROPOLOGY

Core Courses:

- ANTH 100 *Introduction to Cultural Anthropology*
- ANTH 102 *Introduction to Archaeology and Physical Anthropology*
- ANTH 300 *Ethnographic Methods*

or

ANTH 302 *Archaeological Methods*

or

ANTH 335 *Geographic Information Science*

- ANTH 365 *Anthropological Theory*
- ANTH 480 *Advanced Research/Practicum*

or

* ANTH 497 *Advanced Research and Writing*

- BUSI 250 *Principles of Statistics*

or

MATH 210 *Statistical Analysis*

or

PSYC 290 *Statistics*

Sociology/Anthropology and Other Electives:

Any four additional anthropology courses and any two sociology courses.

Minor

MINOR IN SOCIOLOGY:

Six courses in Sociology are required including:

- SOCI 335 *Sociological Research Methods*

or

SOCI 365 *Picturing Society: Readings in Social Thought*

- one additional Sociology course numbered 300 or above.

MINOR IN ANTHROPOLOGY:

Six courses in Anthropology are required including:

- ANTH 300 *Ethnographic Methods*

or

ANTH 302 *Archaeological Methods*

or

ANTH 335 *Geographic Information Science*

or

ANTH 365 *Anthropological Theory and*

- one additional Anthropology course numbered 300 or above.

COURSE PLANNING:

Notes: Courses with an asterisk (*) are required courses.

Major with Emphasis in Sociology

First Year *SOCI 110 *Introduction to Sociology*

Second Year SOCI 227 *Terrorism and War in the Media*
 SOCI 250 *Sociology of the Family*
 SOCI 255 *Gender in Film and Television*
 SOCI 285 *Topics in Social Movements*
 SOCI 270 *Race and Ethnicity*
 *BUSI 250 *Principles of Statistics*, or *MATH 210 *Statistical Analysis*
 or *PSYC 290 *Statistics*

Third Year SOCI 300 *The Urban Community*
 SOCI 306 *Exploring Nature Writing*
 SOCI 310 *Gender and Sexuality*
 SOCI 317 *Society, Culture, and History* (cross-listed with ANTH 317)
 SOCI 320 *Peace and War*
 *SOCI 335 *Sociological Research Methods* (only offered in fall)
 SOCI 340 *Food, Culture, and Nature*
 SOCI 362 *Images of the City*
 *SOCI 365 *Picturing Society: Readings in Social Thought* (only offered in fall)
 SOCI 375 *Environmental Sociology*
 SOCI 360 *Social Change/Social Movements*
 SOCI 380 *Medicine and Culture*
 SOCI 390 *Social Inequality and Identity* (alternates with ANTH 390)

Fourth Year SOCI 490 *Selected Topics*
 *SOCI 480 *Advanced Research/Practicum*
 or
 SOCI 497 *Advanced Research and Writing* (both offered only in fall)

Note: Majors with an emphasis in Sociology must take at least two Anthropology courses.

Major with Emphasis in Anthropology

First year *ANTH 100 *Introduction to Cultural Anthropology*
 *ANTH 102 *Introduction to Archaeology and Physical Anthropology* (offered only in fall)

Second Year ANTH 200 *Buried Cities and Lost Tribes* (offered only in spring)

ANTH 225 *Peoples and Cultures of the Middle East*
ANTH 230 *Cultures of the United States-Mexico Borderlands*
ANTH 235 *Peoples and Cultures of Latin America*
ANTH 240 *Applying Anthropology*
ANTH 245 *Maya Ethnography*
ANTH 250 *Visual Anthropology*
ANTH 260 *Indian Past*
ANTH 280 *Anthropology of Gender*
*BUSI 250 *Principles of Statistics* or *MATH 210 *Statistical Analysis*,
or *PSYC 290 *Statistics*

Third Year *ANTH 300 *Ethnographic Methods* or ANTH 302 *Archaeological Methods*
(both offered only in spring)

ANTH 310 *Anthropology and Education*
ANTH 311 *Indigenous Politics in the Americas*
ANTH 317 *Society, Culture, and History*
ANTH 330 *Human Impact on Ancient Environments*
ANTH 335 *Geographic Information Science*
*ANTH 365 *Anthropological Theory* (offered only in fall)
ANTH 390 *Social Inequality and Identity* (alternates with SOCI 390)

Fourth Year ANTH 340 *Commodities and Culture*
ANTH 360 *Globalization and Transnationalism*
ANTH 490 *Selected Topics*
*ANTH 480 *Advanced Research/Practicum*
or

ANTH 497 *Advanced Research and Writing* (both offered only in fall)

Note: Majors with an emphasis in Anthropology must take at least two Sociology courses.

General Notes:

Sociology/Anthropology majors planning to take coursework away from Hendrix, including foreign study, should confer with the Sociology/Anthropology faculty before such study is undertaken.

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the sociology/anthropology major includes the completion of a senior thesis either in SOCI/ANTH 480 Advanced Research/Practicum or ANTH/SOCI 497 Advanced Research and Writing. The thesis will be presented and defended orally. Students may also present their research at a professional conference or other forum. The grade for the Senior Capstone Experience is an average of the grade for the written senior thesis and the grade for the senior thesis oral presentation.

Pre-professional Programs Related to Sociology

Pre-Social Work

Students interested in pursuing a career in social work should take courses in group relations (social sciences, especially anthropology and sociology) and human development (biological and psychological sciences) regardless of major.

Other Programs Related to Sociology and Anthropology

Students contemplating pre-professional study for careers in law, ministry, public health, criminal justice, city planning, environmental studies, education, and gender studies are invited to consult with the departmental faculty.

THEATRE ARTS AND DANCE

The Department of Theatre Arts and Dance offers a major in Theatre Arts, a minor in Theatre Arts and a minor in Dance. Students choosing to major in Theatre Arts and minor in Dance may double count courses required for the major toward the completion of the minor. Students who declare a major in Theatre Arts must engage a member of the department as their academic advisor no later than the Fall semester of their junior year.

Theater Arts Major

Twelve courses distributed as follows:

- TART 120 *Voice for the Theatre*
- TART 140 *Beginning Acting*
- TART 150 *Movement for the Theatre*
- TART 210 *Script Into Performance: Text Analysis*
- TART 260 *Theatre Production: Scenery and Lighting*
- TART 280 *Theatre Production: Costume and Make-up*
- TART 310 *History of the Theatre and Drama I*
- TART 311 *History of the Theatre and Drama II*
- TART 430 *Stage Directing*
- TART 450 *Production Design*
- TART 497 *Senior Seminar*
- One elective from 200 or above in TART or DANC

THEATRE PRODUCTION PRACTICUM (.25 credit each, all four are required) Theatre Arts and Dance faculty will register the student with the registrar

TARA P21 *House & Publicity, Assistant Stage-Manager, or Properties*

TARA P22 *Acting, Stage-Manger, Dance Captain, Sound*

TARA P23 *Scenery& Lighting*

TARA P24 *Costume & Make-up*

Minor

A minor in Theatre Arts will consist of at least seven courses distributed as follows:

- TART 210 *Script Into Performance: Text Analysis*
- Theatre Production Practicum as detailed above
- One elective from TART or DANC at 200 level or above
- Any one of the following:
 - TART 120 *Voice for the Theatre*
 - TART 140 *Beginning Acting*
 - TART 150 *Movement for the Theatre*
 - DANC 160 *Reading and Writing Dance*
- One of the following:
 - TART 260 *Theatre Production: Scenery and Lighting*
 - TART 280 *Theatre Production: Costume and Make-up*
- One of the following:
 - TART 310 *History of the Theatre and Drama I*
 - TART 311 *History of the Theatre and Drama II*
- One of the following:
 - TART 290 *Beginning Playwriting*
 - TART 430 *Stage Directing*
 - TART 450 *Production Design*

Dance Minor

A minor in Dance will consist of at least seven courses distributed as follows:

- DANC 160 *Reading and Writing Dance*
- DANC 325 *Choreography*
- DANA A30 *Dance Ensemble* (four full semesters)
- Theatre Production Practicum as detailed above
- Two of the following:
 - DANC 215 *Modern Dance Technique*
 - DANC 216 *Ballet Technique*
 - DANC 217 *Jazz Dance Technique*
 - TART 150 *Movement for the Theatre*
- One of the following:
 - TART 260 *Theatre Production: Scenery and Lighting*
 - TART 280 *Theatre Production: Costume and Makeup*

COURSE PLANNING:

First year: TART 120 *Voice for the Theatre*
 TART 140 *Beginning Acting*
 TART 150 *Movement for the Theatre*
 TART 260 *Theatre Production: Scenery and Lighting*
 or

| | |
|--------------|--|
| | TART 280 <i>Theatre Production: Costume and Make-up</i> |
| Second year: | TART 210 <i>Script into Performance: Text Analysis</i> TART 260 <i>Theatre Production Scenery and Lighting</i> TART 280 <i>Theatre Production: Costume and Make-up</i> |
| Third year: | TART 310 <i>History of Theatre and Drama I</i> or TART 311 <i>History of Theatre and Drama II</i> TART 450 <i>Production Design</i> |
| Fourth year: | TART 310 <i>History of Theatre and Drama I</i> or TART 311 <i>History of Theatre and Drama II</i> TART 430 <i>Stage Directing</i> TART 497 <i>Senior Seminar</i> |

SENIOR CAPSTONE EXPERIENCE:

The Senior Capstone Experience for the Theatre Arts major consists of three parts. Part one is completed during the Fall Semester, and part two and part three are completed during the Spring Semester of the senior year. Part one consists of a written document of the student's manifesto for the Theatre, part two consists of a public oral presentation of that manifesto. Part three is participation in TART 497 Senior Seminar for which the student receives a grade. The grade average of parts one and two is entered on the student's transcript but is not calculated in the GPA.

TEACHER CERTIFICATION IN SPEECH AND DRAMA:

The Department of Theatre Arts and Dance strongly recommends that students wishing to certify as secondary teachers of speech and drama in the state of Arkansas should enroll in TART 110 The Art of Public Speaking (or its equivalent at another institution) before participating in student teaching. Students who are considering teacher certification in speech and drama should consult with the department faculty before the end of their sophomore year.

DANCE ACTIVITY COURSES: MODERN AND BALLET

These three courses are offered as Activity courses. Each meets the Physical Activity requirement.

HENDRIX DANCE ENSEMBLE

Auditions for the Hendrix Dance Ensemble are held during the first week of the Fall semester. Two semesters of participation in Dance Ensemble (DANA A30) may be used to satisfy the Physical Activity capacity requirement toward graduation. Students may count only one whole course credit (four semesters) of DANA A30 toward graduation. The whole course credit may be used to fulfill the EA Learning Domain requirement.

PRE-PROFESSIONAL GUIDELINES

PRE-ENGINEERING

3/2 Engineering Program

The 3/2 pre-engineering program is a cooperative agreement between Hendrix College and a set of colleges that offer ABET accredited engineering programs. The program is also called “combined degree” or “dual degree”. There are currently three engineering schools in the Hendrix 3/2 engineering program. They are: Columbia University in New York City, NY, Vanderbilt University in Nashville, TN, and Washington University in St. Louis, MO.

The student completes the graduation requirements for a BA at Hendrix in the first three years. Application to the engineering school for the 3/2 program happens during the junior year. The student then completes the junior and senior level engineering curriculum at the engineering school. At the end of the five years, the student will have earned a BA from Hendrix and a BS in engineering from the engineering school. If necessary, the student may complete four years at Hendrix before entering the engineering program, making it a 4/2 program instead.

The engineering schools have excellent engineering programs, and admissions are highly competitive. Each year, these schools reserve a small number of seats for students from Hendrix and other schools like us across the nation. While there is competition for these spots, the probability of receiving admission through the 3/2 program is much higher than the probability of receiving admission into the engineering program as a freshman.

There are many types of engineering, including mechanical, electrical, chemical, civil, and computer engineering. Other types include systems, financial, environmental, biomedical, and industrial engineering. Each partner school offers a different selection of these engineering types.

The choice of major at Hendrix depends on the type of engineering degree being sought. For example, a student interested in civil, mechanical, or electrical engineering will typically major in physics. A student interested in chemical or biochemical engineering might major in chemistry, chemical physics, or biochemistry molecular biology. A student interested in computer engineering will major in computer science. Finishing requirements for a Hendrix degree with one major in three years requires careful preparation and planning. Students will typically not have time to also complete a second major or a minor or have time to take a complete semester to study abroad. However, if a student arrives at Hendrix with multiple transfer credits or Advanced Placement (AP) credits, it is possible to complete something beyond the one major.

The following Hendrix classes are required for general admission to all 3/2 programs:

- CHEM 120 *General Chemistry I: Chemical Structure and Properties*
- CSCI 150 *Foundations of Computer Science*
- MATH 130 *Calculus I*
- MATH 140 *Calculus II*
- MATH 230 *Multivariable Calculus*
- PHYS 230 *General Physics I (calculus-based)* or PHYS 235 *General Physics I (Workshop)*
- PHYS 240 *General Physics II (calculus-based)* or PHYS 245 *General Physics II (Workshop)*
- Other classes that must be taken at Hendrix depend on the selection of engineering school and engineering type. Freshmen should work with their advisor to plan to fit these classes, plus the classes needed for the Hendrix major, plus the Hendrix general graduation requirements into three years. In order to meet this schedule, freshmen must complete the calculus sequence in their first year. The other freshmen classes should work towards the major and general graduation requirements.

Financial aid packages provided by Hendrix College provide assistance while the student is studying at Hendrix and do not continue while the student is at the engineering school. Outside scholarships may or may not apply to the engineering school tuition, depending on the details and requirements of each scholarship. Each engineering school offers their own financial aid packages, and it is the student's responsibility to apply for these programs at the time of application to the program at each school.

If you are interested in the program, or have questions, please contact Dr. Ann Wright at wright@hendrix.edu.

PRE-LAW

There is no specific major required of students who are preparing for law school. Hendrix students entering law school have majored in literally every major offered by the College, including interdisciplinary majors.

Law school admission committees emphasize several factors when considering applications. The first two are a commendable grade point average and a strong performance on the Law School Admission Test (LSAT). In addition, they look for a combination of three general types of skills:

- The ability to read and comprehend a great deal of information quickly;
- The capacity to reason logically and quickly, using both verbal and quantitative materials; and
- The ability to use both spoken and written English to express ideas clearly, fluently, and precisely.

As these skills are not discipline-specific, virtually any major will be acceptable to law school admission boards, so long as applicants can demonstrate that they have these skills.

While a particular course of study is not required for application to law school, students are encouraged to gain some experience in reading court cases before applying to law school. Courses such as the following would assist in achieving this goal:

POLI 224 *Family Law*
 POLI 320 *Criminal Law*
 POLI 321 *American Constitutional Law: The Federal System*
 POLI 322 *American Constitutional Law: Individual Rights and Liberties*
 BUSI 350 *Business Law*

In addition to these skills, law school admission committees look for students to articulate their purpose in pursuing a legal career. Therefore, in addition to courses that might add depth to students' substantive knowledge of the different fields in which students might wish to focus his/her legal work, students are strongly encouraged to complete internship(s) in legal settings to gain experiential knowledge about the practice of the law.

PRE-MEDICAL AND OTHER HEALTH-RELATED SCIENCES

Students interested in pre-medical or other health-related fields requiring the MCAT, DAT, VCAT, OAT, PCAT or similar exams in the spring of the junior year or the fall of the senior year usually need to take at least 2 biology, 4 or 5 chemistry, 2 physics, and 1 mathematics courses in the first three years. Some schools require 3 or more biology courses. Thus, they need at least 10 science courses in six semesters, many of which have laboratories and need to be sequenced properly, regardless of the student's major. These 10 courses are typically the following: Cell Biology and Genetics (we strongly recommend Animal Physiology as well), Chemistry I and II, and Organic Chemistry I and II, Biochemistry (for the MCAT) Physics I and II (algebra or calculus-based), and one or two mathematics courses. While some professional schools no longer list any specific math requirement, a few list "Calculus I" or "Calculus II" as a requirement. Many programs also require statistics. Proper course sequencing throughout the first three years of the four-year curriculum is crucial. One should consult course requirements for any specific major in the *Catalog*. Once a major has been decided upon, the student should consult with a faculty member in that department for further information on optimum course sequencing.

The MCAT has recently undergone a major change. In both Natural Science sections of the test, Biochemistry and statistics are also tested. Other sections of the test will require students to be familiar with fundamental concepts of psychology, sociology and ethics, so at least one course in these three areas is strongly recommended. There are numerous courses that will provide students with the concepts they need in these latter sections. In Psychology, appropriate courses would include Introduction to Psychology, Childhood and Adolescence, Adult Development and Aging, Social Psychology and Comparative Animal Behavior. In Sociology, appropriate courses include Introduction to Sociology, Gender and Family, Racial and Ethnic Minorities, Medicine and Culture, and Introduction to Cultural Anthropology. The Philosophy Department offers several 200-level ethics courses, both as recurrent courses and as occasional topics courses; any of these would be appropriate. The new MCAT will empha-

size critical reading skills, so students should have at least one and preferably two English courses prior to taking the MCAT.

As long as the minimum science requirements are met, one's major is not a criterion of professional school admission, but overall grade point average, science grade point average, and the standardized exam scores (which have science sections covering courses listed above) are critical. Students with equivalent credentials (e.g., MCAT, GPA, and grades in science courses) who major outside of the sciences will be a little unique when their applications are considered, and this may even be an advantage.

Generally, first-year students need to start at least two science sequences and to take at least four science/math courses in the first year regardless of their projected major. An absolute maximum is six science courses (three per term), but this is not often recommended. Taking fewer than three science courses will make it difficult for students to be prepared for the professional school standardized exams in three years. It is recommended that in the first year, pre-professional school students take Cell Biology and Chemistry I and II. Other science courses which are often taken by first-year students include selections from this list: Botany or Zoology (Biology majors), Functions and Models, Calculus I and Calculus II. Physics may be an appropriate choice for Physics or BCMB majors. Outside the Natural Sciences, students should consider coursework in psychology, sociology, ethics or speech communication.

While the courses listed above are the most frequently specified prerequisites by professional schools, students should check for additional prerequisites when they have chosen the particular school to which they want to apply. All students are encouraged to visit the web site of the professional organization that they wish to enter, as well as the websites of any specific schools they might consider applying to, for further information. You can find links to all U.S. medical schools at <http://www.aamc.org>.

PRE-VETERINARY

Pre-veterinary students may need to take one summer course or equivalent in animal nutrition before the end of their junior year in order to meet the prerequisites of specific veterinary schools, as we do not offer this course at Hendrix. In addition, most veterinary colleges require courses in physics, biochemistry, and microbiology. Some schools also specify specific biology or non-science courses required for admission. Thus, each student is responsible for checking the specific requirements of the school or schools to which he or she wishes to apply, for meeting all deadlines for application, etc., and for ensuring that he or she builds the transcript that will not only result in a good liberal arts education, but will also provide the opportunity for admission to the school of his or her choice. Students should seek the advice of faculty in their major and of the pre-veterinary advisor for proper sequencing of courses, meeting prerequisites, and planning for the best liberal arts education.

All pre-professional students are encouraged to gain experience by volunteer service work in the profession, by shadowing, non-credit internships, and by doing undergraduate research

in the sciences. They should attend the annual informational meetings and meet with the professional school admissions officers who visit the campus periodically (even if they do not intend to apply to that particular school because they are sure to gain useful information). All students need to be aware of the many summer opportunities available to them. These can be found on-line using Google or by going to the homepage of any veterinary medical school in the country using links provided by the Veterinary Medical College Application Service (VMCAS) (<http://www.aavmc.org/>). Applicants can use VMCAS to apply to most of the accredited veterinary colleges in the USA and abroad. Arkansas does not have a veterinary college, but has contracts with Louisiana State University, University of Missouri and Oklahoma State University to accept a certain number of Arkansas residents each year.

PRE-DENTAL

Admission requirements differ slightly from one dental school to another. For this reason, students should contact the dental school of their choice early in their Hendrix career. Arkansas has no dental school, but several schools reserve some seats at subsidized tuition rates for students from Arkansas. These institutions include Harvard University, Emory University, University of Tennessee at Memphis, University of Missouri at Kansas City, Louisiana State University, University of Iowa, University of Louisville, Baylor University, and Loma Linda University.

The admission requirements for dental school generally bear a strong resemblance to those for medical school. Students who initially follow a pre-med track will be well-positioned to fine-tune the junior and senior years of their programs for dental school admission. Most of our graduates who enroll in dental school attend the University of Tennessee Health Science Center at Memphis, so their recent requirements are presented as an example.

English Composition: 2 courses

Writing

Rhetoric

Courses from the Introduction to Literary Studies group

Courses from the Advanced Studies in Literature group may also qualify

Biology (General): 2 courses with labs

Cell Biology

Zoology

Chemistry: 5 courses

General Chemistry I and II

Organic Chemistry I and II

Biological Chemistry

Physics: 2 courses

General Physics I and II (algebra-based, calculus-based, or workshop)

Other Biology: one from this list

Histology (not offered at Hendrix)

Microbiology

Comparative Vertebrate Anatomy
Science electives may be chosen from:
Genetics
Comparative Vertebrate Anatomy
Developmental Biology
Advanced Cell Biology
Microbiology
Animal Physiology
or courses in histology, molecular biology, neurobiology
Non-science electives may be chosen from:
philosophy, psychology, business administration, economics, public speaking, computer science, and courses in the social sciences.

PRE-PHARMACY

UAMS College of Pharmacy

Pre-pharmacy: Recent Requirements

This is a general guide only—specific course numbers which meet these requirements vary from school to school. For a specific list of the courses which meet the UAMS pre-pharmacy requirements from Hendrix College, contact Dr. Caro or the UAMS College of Pharmacy Registrar’s office.

| CATEGORY | SEMESTER HOURS REQ. | COURSES TO CHOOSE FROM |
|---------------------------|--|---|
| English/ Communication | 9 hours (3 courses) | ENGL 110 <i>Intro to Academic Writing</i> or higher, any course. TART 110 <i>The Art of Public Speaking</i> |
| Mathematics | 3 to 6 hours depending upon placement by Math Dept. (1 or 2 courses) | MATH 130 <i>Calculus I</i> (not survey or business) |
| Chemistry | 16 hours (12 lecture, 4 lab) (4 courses) | CHEM 110 <i>General Chemistry I</i> and lab, CHEM 120 <i>General Chemistry II</i> and lab, CHEM 240 <i>Organic Chemistry I</i> and lab, CHEM 250 <i>Organic Chemistry II</i> and lab |
| Biology | 12 hours (9 lecture, 3 lab) (3 courses with labs) | BIOL 150 <i>Cell Biology</i> , BIOL 220 <i>Zoology</i> , and BIOL 340 <i>Microbiology</i> with labs. Check with pre-pharmacy advisor for additional courses. |
| Physics | 4 hours (3 lecture, 1 lab) (1 course with lab) | PHYS 210 or PHYS 230 <i>General Physics I</i> and lab |

| | | |
|--------------------------|---------------------------------------|--|
| Economics | 3 hours (1 course) | Choose from: ECON 200 <i>Microeconomics</i> , ECON 210 <i>Macroeconomics</i> , ECON 100 <i>Survey of Economic Issues</i> or BUSI 200 <i>Fundamentals of Accounting and Business</i> |
| Recommended Electives | 9 hours (3 courses) | Choose from: BIOL 250 <i>Genetics</i> , BIOL 320 <i>Animal Physiology</i> , BIOL 450 <i>Advanced Cell Biology</i> , BIOL 205 or BIOL 215 <i>Anatomy and Physiology I or II</i> , CHEM 320 <i>Physical Chem- istry</i> , CHEM 330 <i>Biological Chemistry</i> , MATH 140 <i>Calculus II</i> (not survey or business), MATH 215 or PSYC 290 <i>Statistics</i> or BUSI 250 or MATH 310 <i>Statistics</i> , PHIL 245 <i>Logic or PHIL 205 Critical Reasoning</i> , PHYS 220 or PHYS 240 <i>General Physics II</i> (including lab) |
| Humanities Electives | To Total 69 hours (2 or 3 courses) | Choose from: Survey courses in Art, Music, Theatre, Literature, Philosophy, Religion, Foreign or Sign Language, Psychology, Sociology, Anthropology, Geography, US or World History, Political Science, Ethics |

No course can be used to satisfy the requirements in more than one area.

Courses which do not meet the Humanities elective requirements are courses in:

- | | | |
|----------------------|--|-----------------------|
| • Health | • Military Science | • Computer Science |
| • Physical Education | • Education | • Agriculture |
| • Business | • Studio courses in Art, Music or Theatre | • Any remedial course |
| • Science | | |

Note: Pharmacy schools often recommend Biochemistry, Immunology, Animal Physiology, and Physical Chemistry as additional courses to consider above the required 69 hours (17 or 18 course) total.

PRE-SOCIAL WORK

See Sociology/Anthropology section of the *Guide*.