

The University of Tennessee, Knoxville
Undergraduate Council
Minutes of Meeting
January 31, 2012
3:40pm – University Center Ballroom

MEMBERS PRESENT: Mari Beth Coleman, Chuck Collins, George Drinnon, Jeff Fairbrother, Jean Gauger, Tom George, R.J. Hinde, Greg Kaplan (Chair), John Koontz (Past Chair), Maura Lafferty, Sungkyu Lee, Catherine Luther, Norman Magden, John Mount, Rebekah Page (for Steve Dandaneau), Michael Palenchar, Masood Parang, Chris Pionke, Lois Presser, Gary Ramsey, Amber Roessner, Harold Roth, Lisi Schoenbach, Rachelle Scott, John Stier, Wendy Tate, Matthew Theriot (Vice Chair), Scott Wall, Suzanne Wright

OTHER ATTENDEES: Catherine Anderson, Monique Anderson, David Matthews, Cheryl Norris, Missy Parker, Jamia Stokes, Fernandez West, Bob Williams

The meeting was called to order at 3:40pm by Greg Kaplan, Chair.

The minutes of the October 25, 2011, meeting of the Undergraduate Council were approved.

Committee Reports

- **Academic Policy (Magden)**—see pages U2143-U2150
 - Norman Magden reviewed the Academic Policy Committee's work. All policy changes were approved (changes in registration, 30-hour rule, 5-Year BA/MA programs, final exams).
- **Advising (Parker)**—see pages U2151-U2152
 - Missy Parker provided a brief report on the committee's last two meetings. She noted that faculty and advisors need access to the student view of the timetable which includes enrollment and waitlist numbers on the main page. Chris Pionke mentioned that the course management tool, Moodle allows users to switch between faculty and student roles and might serve as an interim solution. The request has been sent to OIT.
- **Appeals (Park)**—NO REPORT
- **Associate Deans Group (McMillan)**—see page U2153
- **Curriculum (Theriot)**—see pages U2154-U2287
 - John Mount summarized the Curriculum Committee's recommended changes. The Interior Design program submitted revised course and program proposals that did not increase their total hours. All curricular changes were approved.
- **General Education(Collins)**—see pages U2289-U2291
 - Chuck Collins highlighted the recent general education changes. One of the social science proposals (IE 205—Engineering Economic Analysis) was sent back for revision. It will be discussed at the General

Education Committee's February 8th meeting. If the course is not approved by the catalog deadline, the Industrial Engineering program will substitute IE 405, and the Biomedical Engineering program will revert back to using ECON 201 or 207 to meet the social science requirement. All other course additions, deletions, and revisions were approved.

The Council will discuss potential term limits for the various committee chairs at its next meeting.

The meeting adjourned at 4:40pm.

ACADEMIC POLICY COMMITTEE REPORT

December 7, 2011 Meeting Minutes

Attendees: Monique Anderson, Richard Bayer, Kristina Brantley, Jean Gauger, R.J. Hinde, Catherine Luther, Norman Magden (chair), Sally McMillan, Cheryl Norris, Missy Parker, Lois Presser, Adam Roddy, Amber Roessner, Wendy Tate

A revision to the Changes in Registration policy was approved.

Missy Parker asked for feedback on a potential revision to the 30-hour rule. After the proposal is reviewed by the advising community, Parker will submit a final draft for an APC vote in January.

Adam Roddy presented two items: one on UTrack and one on advisor evaluations. The UTrack policy and procedures are still being worked out. The UTrack Taskforce will take Roddy's proposal under advisement as the policy language is refined.

The SGA bill on advisor evaluations will be discussed by the Advising Committee. There are already several assessment tools being used in the different colleges. Ruth Darling will convene an advising assessment sub-committee this spring to discuss the matter in greater detail, and she welcomes student membership.

The meeting adjourned at 2:30pm.

Revised Policy—APPROVED

Adds, Drops, and Withdrawals ~~Changes in Registration~~

- Students are allowed four drops during their academic career (until a bachelor's degree is earned).
- Students holding a bachelor's degree who return to pursue a second bachelor's degree are allowed four additional drops.
- Students pursuing more than one major or degree simultaneously are not allowed additional drops.
- **After the 84th day, no drops are permitted. From the 85th day to the last day of classes, students still have the option of withdrawing from the university (dropping all courses).**
- Withdrawing from the university (dropping all courses) does not impact a student's four allotted drops. More information on withdrawals is provided in the catalog section, Withdrawing from the University.
- The W grade is not computed in the grade point average.
- Courses may be dropped on the web (<https://myutk.utk.edu/>).

Rationale: The only way a student can drop a course after the 84th day is to drop all her/his courses. It's important that we spell out that option as clearly as possible and that we not assume that they will click the "withdrawal" link to gain that clarity. Very few students know what we mean by "Changes in Registration." Entitling it, "Adds, Drops, and Withdrawals" would help us set the tone for that section as we (1) explain all options to students and (2) draw distinctions between drops and withdrawals. Impact on other units: none. Financial impact: none.

Referred to Transfer Taskforce for Further Discussion**Adam Roddy—Proposal for Revisions and Changes to the Universal Tracking (UTrack) Section of the Revised Academic Policy**

I apologize for the lengthy nature of my proposals, but as the sole student representative on the Academic Policy Committee, I feel it is my responsibility to represent the desires and will of the student body. After speaking with multiple students, representatives of students, and student leaders, I believe these suggestions accurately represent the wishes and will of the student body for the University of Tennessee at Knoxville. These proposals are designed to represent student concerns while still keeping in mind and promoting the ideas and goals already envisioned by the Academic Policy and its current revisions.

The following contains three suggestions I have for changing the UTrack policy:

There is one major change and two minor changes. The major change takes place in the first paragraph. It specifically deals with when and how students will be required to select a major or exploratory area. It provides students with an option instead of a mandate of either declaring a major or exploratory area at the time of admittance to the university. My perspective of this comes from a student who is currently an advisor for the College of Arts and Sciences with primarily undecided students. He specifically outlined in his email to me how "helping a former engineering major or communications major who jumped straight in to their major content is much tougher to get back on track than someone who came in undecided." Additionally, many students enroll knowing exactly what they want to major in, but by no means does this make up the vast majority. In general, many students feel as if this sort of requirement would be a means of the University providing a "degree" instead of an "education." Students realize, however, that the University is undertaking the Governor's challenge to become a Top 25 institution. To promote this goal, the next portion of my suggestion requires students to have declared this major or exploratory area by the end of their first semester. This provides students with a semester to acclimate to college before being required to jump immediately into a program or major they likely know nothing about. Furthermore, it still promotes students committing to a major or exploratory area thereby increasing four-year graduation rates, which I believe was one of the ideas behind having students declare one of these upon admittance to the university.

The next minor suggestion I have is in regards to the hold that is placed on students' registration upon being "off-track" for three consecutive semesters. While I agree that immediate and decisive action needs to take place regarding students if they are "off-track" for three semesters, dropping **all** classes the students have enrolled in could potentially have a negative impact. These students will likely already be struggling to graduate in four years. I propose that only classes related to their current major or exploratory area in which they are "off-track" should be dropped. Many students could also be taking general education requirement courses at the time of being "off-track." If this is the case, then these classes, which could still be applicable to other majors in which the student is on track for, need not be dropped. The student is likely "behind" enough as it is, and dropping

classes unrelated to their current major or interest could only hinder their progress and subsequent graduation time further.

The final minor suggestion I proposed simply regards the selection of new majors a student will be provided upon being "off-track" for three consecutive semesters. Currently the academic policy states that students will be provided a list of majors for which they are on track. I propose that the wording and policy be changed to a list of majors for which students are not "off-track." This will allow students to select from a much greater range provided the major or interest a student chooses is not one in which they would be "off-track" for. This could potentially absolve the issue discussed at prior meetings of a student who wants to switch from Engineering to Music. If the student can only select from a list of majors from which they are on track, then switching from Engineering to Music will be difficult to say the least.

Finally, I listed a student concern regarding the information presented in the fourth paragraph under **Universal Tracking (UTrack)**. While I have not listed an alternate proposal, I have listed a comment on the side, which states students' concerns to the immediate hold that would be placed on their registration upon being "off-track." This comment simply outlines how arranging an advising appointment can be a long and drawn-out process. Registering for new or different classes may provide a solution to being off-track so expediency and flexibility of this process could thereby be paramount to students becoming on track once again.

Thank you in advance for your time, input, and consideration on this proposal and the students in which it represents.

Adam Roddy
Student Government Association—Chief of Staff
University of Tennessee Ambassador
UNIVERSITY OF TENNESSEE
Email:aroddy1@utk.edu
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Universal Tracking (UTrack)

UTrack is a tool for helping students stay on track for timely graduation. **Students will have the option of selecting a major or exploratory area at the time they are admitted to the university. At this time, undecided will still be an option for students to select.** Students declare either a major or an area of interest (exploratory area) **at the end of their first semester at the time they are admitted to the university.** Every area of study includes a major guide. These guides are designed to keep students on track for four-year graduation.

Students do not have to complete all of the recommended courses to remain on track; they simply have to meet certain minimum requirements known as milestones. Milestones for each semester are identified in the guides for each undergraduate major or exploratory area. Milestones usually include successful completion of certain required courses and attainment of a minimum GPA. A student's major guide is tied to a catalog year. The

semester for which a student is "tracking" milestones may not be the same as the student's actual number of semesters at UTK.

Each main term of the academic year (fall and spring) students receive two UTrack audits. The first will be generated after the close of the "add/drop" period and will be used by the student and the advisor to identify any potential upcoming problems the student may be experiencing in meeting milestones. A second audit will be generated after grades are posted and will alert the student if some milestones are unmet. **Students with unmet milestones are notified that they are "off track."**

When students are off track, a hold will be placed on their registration. They will be required to develop a plan during the following main term for getting back on track. These students must meet with an advisor in the advising center (or the designated faculty advisor if there is no advising center) of the college where their current major is housed. **If students do not have an advisor-approved plan for getting back on track, they will not be allowed to register for future semesters.**

[Comment from student: Developing a plan and meeting with an advisor is necessary, but immediately imposing a registration hold may be detrimental to students, especially if the student is attempting to register (which might even remedy the problem). There are often long waits to get an advising appointment, and flexibility in registering and changing one's schedule is important.]

If students are off track for three consecutive end-of-semester audits, they will not be able to take classes (they will be blocked from registration and **classes in their current major or exploratory area ~~their schedule~~ will be dropped) until they have selected a new major from a list of majors for which they are **not "off-track" on-track.** (Engineering to Music Example)** Once the student selects a new major, he or she should contact the advising center (or designated faculty advisor) of the college offering that major to schedule an appointment to discuss changing the major. If students are unsure of a new major and/or if they do not find a major for which they are on track, they should contact the Arts and Sciences advising center.

Referred to Advising Committee for Further Discussion

BILL#: SEN-04-12

TITLE: Evaluation of Academic Advisors

**SPONSOR: Michael Bright, College of Engineering Senator (mbright8@utk.edu)
Adam Roddy, College of Arts & Sciences Senator (aroddy1@utk.edu)**

DATE: October 25, 2011

Whereas, The University of Tennessee has been challenged to become a top 25 public research university, and

Whereas, Freshman-to-Sophomore retention, tracked by UT's Office of Institutional Research and Assessment is a key metric used by many groups, including the U.S. News & World Report rating system to judge a university's successfulness and ranking, and

Whereas, Academic advisors are crucial in a student's career, especially for lowerclassmen in their early stages, and thus can affect the retention rates of said students, and

Whereas, The university is currently using part of a \$1.6 million (2010) fund from tuition revenues to employ additional academic advisers, and

Whereas, The Student Government Association supports the Advising Program at the University of Tennessee and only wants to see the advising policy improve, and

Whereas, An Evaluation System of Academic Advising would help provide feedback to advisors on how to improve advising for students, departments, colleges, and advisors themselves, and

Whereas, This bill is further designed to work in congruence with the currently-proposed Academic Advising Policy revisions (Academic Policy Committee) and all future changes,

Be It Hereby Resolved That the Student Assessment of Instruction System (SAIS) implement an option through which the students should have an opportunity to electronically evaluate their academic/faculty advisors and associated effectiveness along with their professors at the end of each semester, and

Be It Hereby Further Resolved, That the Student Government Association recommends the implementation of the Advisor Evaluations should be carried out in three main Steps. Firstly, the option shall be available to students in the College of Arts and Sciences, with the results of the evaluations for the academic advisors made known to the department/college and later be presented to the Student Government Association Student Senate by a representative of the College of Arts and Sciences. Secondly, if there are enough responses and enough data is generated over a period of time, the Student Senate shall vote on whether or not to extend the option to include all other colleges, with the results made available to the respective departments and once again presented to the Student Senate. And thirdly, after enough data is generated, the Student Senate shall vote and subsequently work in coordination with the administration on whether or not to make the results public to all students through the TN 101 site or a format similar to it, and

Be It Hereby Further Resolved, That the proposed changes to the Academic Advising Policy presented in this bill would carry over through future advising policy changes or revisions as well.

ACTION TAKEN BY THE STUDENT SENATE

Seconded by _____

VOTE for _____ against _____ abstentions _____

Date _____

ACTION TAKEN BY THE PRESIDENT OF THE SENATE

Signature_____

Date_____

ACTION TAKEN BY THE STUDENT GOVERNMENT ASSOCIATION PRESIDENT

Signature_____

Date_____

January 4, 2012 Meeting Minutes

In lieu of the January 4th APC meeting, an email vote was taken to approve a revision to the 30-hour rule.

Revised Policy—APPROVED**General Requirements for a Bachelor's Degree** (bullet 4)

Complete the last 30 hours of credit offered for the bachelor's degree in residence at the University of Tennessee, Knoxville. ~~During the final 30 hours, up to two courses outside a student's major may be taken at another institution as long as the student has 25% of coursework for the degree completed at the University of Tennessee, Knoxville. Credit for correspondence courses taught by the faculty of the UT Knoxville campus may be counted as part of this requirement with the exception of the limitation noted in the regulations concerning correspondence work.~~ Special arrangements to allow study abroad courses, work taken at other University of Tennessee campuses, and all other requests for waiving this requirement must be approved by the dean of the college in which the student is enrolled.

January 25, 2012 Meeting

A special meeting was called to review the 5-year programs in order to gain the requisite approvals before the catalog deadline.

New 5-Year BA/MA Programs—APPROVED**◆ ADD FIVE-YEAR BA/MA PROGRAM – FRENCH AND FRANCOPHONE STUDIES****Five-Year BA/MA Program**

For qualified students, the Department of Modern Foreign Languages and Literatures offers a 5-year BA-MA program with a BA major in French & Francophone Studies and a non-thesis MA major in French. The primary component of the program is that a qualified student may take up to 9 hours of approved graduate courses for their senior undergraduate electives and have them count toward both the BA degree and the MA degree. Qualifications for admission to the program are:

- The student must have an overall cumulative GPA of 3.0 and a cumulative GPA of 3.5 in undergraduate French courses to be considered for admission to the program.
- Conditional and full admission of a student into this program must be approved by the Department of Modern Foreign Languages and Literatures and by the Graduate School.
- Conditional admission may be granted after completing 64 hours of the requirements for the BA in French & Francophone Studies, as specified by any Undergraduate Catalog in effect during that student's attendance at the University of Tennessee, Knoxville, provided that the Catalog has been in effect within six years of the date of graduation.
- Conditional admission must be obtained before taking a graduate course that is to be used to satisfy the requirements of both the BA degree and the MA degree.
- Full admission may be granted after completing 96 hours of the requirements for the BA in French & Francophone Studies, as specified by any Undergraduate Catalog in effect during that student's attendance at the University of Tennessee, Knoxville, provided that the Catalog has been in effect within six years of the date of graduation. A cumulative GPA of 3.5 in undergraduate French courses is required for full admission.
- Any course taken for graduate credit prior to satisfying all requirements for the BA degree must be approved by the department head (or designee) and by the Graduate School.
- A student will not be eligible for a graduate assistantship until the student has satisfied all of the requirements for the BA degree.

Rationale: Adding a five year BA-MA program in French will give students more options to complete these programs. This is following models offered at other institutions and recognizes the need for master's-level training in order to be competitive in a large variety of sectors of the job market. This new accelerated program option will only be available to highly qualified French majors, and its design follows established five year BS-MS programs offered at UTK in the College of Engineering. Impact on other units: No impact. Financial impact: No impact.

◆ ADD FIVE-YEAR BA/MA PROGRAM – GERMAN

Five-Year BA/MA Program

For qualified students, the Department of Modern Foreign Languages and Literatures offers a 5-year BA-MA program with a BA major in German and a non-thesis MA major in German. The primary component of the program is that a qualified student may take up to 9 hours of approved graduate courses for their senior undergraduate electives and have them count toward both the BA degree and the MA degree. Qualifications for admission to the program are:

- The student must have an overall cumulative GPA of 3.0 and a cumulative GPA of 3.5 in undergraduate German courses to be considered for admission to the program.
- Conditional and full admission of a student into this program must be approved by the Department of Modern Foreign Languages and Literatures and by the Graduate School.
- Conditional admission may be granted after completing 64 hours of the requirements for the BA in German, as specified by any Undergraduate Catalog in effect during that student's attendance at the University of Tennessee, Knoxville, provided that the Catalog has been in effect within six years of the date of graduation.
- Conditional admission must be obtained before taking a graduate course that is to be used to satisfy the requirements of both the BA degree and the MA degree.
- Full admission may be granted after completing 96 hours of the requirements for the BA in German, as specified by any Undergraduate Catalog in effect during that student's attendance at the University of Tennessee, Knoxville, provided that the Catalog has been in effect within six years of the date of graduation. A cumulative GPA of 3.5 in undergraduate German courses is required for full admission.
- Any course taken for graduate credit prior to satisfying all requirements for the BA degree must be approved by the department head (or designee) and by the Graduate School.
- A student will not be eligible for a graduate assistantship until the student has satisfied all of the requirements for the BA degree.

Rationale: Adding a five year BA-MA program in German will give students more options to complete these programs. This is following models offered at other institutions and recognizes the need for master's-level training in order to be competitive in a large variety of sectors of the job market. This new accelerated program option will only be available to highly qualified German majors, and its design follows established five year BS-MS programs offered at UTK in the College of Engineering. Impact on other units: No impact. Financial impact: No impact.

Revised Policy—APPROVED

Exams

Final exams must be given during the final exam period at the scheduled time and in the scheduled place, although alternative uses of the scheduled exam period may be designated

by the instructor. Examples would include group presentations, presentations of final projects or general discussions regarding course content.

Students are not required to take more than two exams on any day. The instructor(s) of the last non-departmental exam(s)¹ on that day must reschedule the student's exam during the final exam period. It is the obligation of students with such conflicts to make appropriate arrangements with the instructor at least two weeks prior to the end of classes.

In-class, written quizzes or tests counting more than 10% of the semester grade may not be given the last five calendar days before the study period. The study period, designated as "Study Day" on the Academic Calendar, is set aside for final examination study. There should be no assignments or projects due during this time.

No exams may be scheduled during the designated Study Period. No regular exams may be scheduled during the "Make Up Exam" times.

¹ Some units offer departmental exams in which one, common exam period is assigned to all sections of a particular course. These exams should not be rescheduled.

ADVISING COMMITTEE REPORT

November 15, 2011 Meeting Minutes

Call to order – Missy Parker

Office of National Scholarships and Fellowships – Dr. Michael Handelsman spoke to the committee about the ONSF.

Thornton Center – Ratliff provided a handout of academic highlights for this fall. She informed the group of some new initiatives such as the Pre-game Summer Bridge Program for incoming students, ACE – Achieving Classroom Excellence, GradesFirst, and GRE prep sessions.

Revise wording on Motion for Chair – Parker announced that the motion submitted to the Undergraduate Council last month has passed with a friendly amendment. The revised proposal:

“The chair of the Advising Committee will serve a two year term. At the beginning of the chair’s second year of service, a chair-elect will be elected from the membership and will assume the chair’s position the following fall term. The out-going chair will then serve as past-chair for the next year to support, assist, and serve as substitute for the chair if necessary. There are no limits to the number of times a chair can serve. To be eligible to serve as chair, the nominee must have academic advising as a major component of their position.”

VolVision Advising Sub-committee – Darling announced that she has a good number of people who have volunteered to work on the sub-committee groups for advisor career ladder and advising web site.

Academic Advising Awards - Darling announced that the call for nominations for academic advising awards has gone out.

Registrar Update – Warden announced that the Registrar’s Office is currently working on UTrack implementation with DARS and Platinum Analytics. A new form in INB (Banner) SOAPCOL, has been developed to see if a student has a background institution record that is not showing in the SSB. Advising staff who do not have access to INB can submit a request for access using the Banner access form on the Registrar’s website.

TennACADA Update – Rebecca Diemer announced that Tim Woods will provide some basic information on financial aid at the next meeting.

January 24, 2012 Meeting Minutes

Welcome and Call to Order – Parker called the meeting to order at 3:30 p.m.

Advisors View of Timetable in Banner – Parker demonstrated the view of the timetable for students is different than for faculty/staff. The faculty/staff view does not easily show enrollment or wait-list numbers. After discussion, it was agreed that Parker would represent the advising community in seeking a solution.

Tutoring Update– DiNuzzo distributed information on the new tutoring offered by the SSC in the Commons and in Hess Hall. After the move to Greve later this semester, tutoring will also be offered at the SSC. The SSC will be applying for certification from the College Reading and Learning Association (CRLA) for tutoring. The intent is to continue to grow the tutoring program from the current courses with 17 tutors.

Success Workshops Update– Renalds reported that of the 765 first year students who were placed on probation for the first time after fall 2011, 420 have completed their required success workshop. All action plans are attached to students' records in AdvisorTrac. Each student will receive a personalized communication from the SSC regarding their specific action plan.

Supplemental Instruction Update – Hedges announced that the spring semester schedule and other SI information are on the SSC website at <http://studentsuccess.utk.edu/support/supplemental/>. Spring courses with SI sessions are Math 119, 130, and 115; Chemistry 120, 130; Engineering 151, 152. New this semester – the SI Leaders have each created a FaceBook page for their classes. Also new this semester is the videos being created for the common problems that students run into in each of the courses. The plan is to have at least one video for each chapter in each course in SI. Videos can be found by visiting <http://studentsuccess.utk.edu> and clicking on the link in the bottom left of the main page or by going directly to <http://studentsuccess.utk.edu/support/supplemental/videos.shtml>.

Chancellor's Honors Update – Page announced that the Chancellor's Honors Program offices will be moving to the Baker Center in June. They are searching for a new Assistant Director who will be working with programming primarily for the Haslam Scholars. Beginning with the fall 2012 cohort, honors students who receive the Volunteer Scholarship (TN residents) or the Excellence Award (out of state) will receive \$1000 more in their scholarship packages. If they are released from the Honors program, they will lose the \$1000. If students are admitted to the Honors program after their freshman year, they will receive the \$1000.

Retention Report – Darling provided data on first-time full time freshmen enrollment, first year retention rates, and 4 and 6 year graduation rates – all provided by the Office of Institutional Research and Assessment. Full reports are available at the fact book <http://oir.tennessee.edu/factbook.html>.

One Stop Shop Search – Darling announced that she is the chair of the search committee for the new One Stop Shop Director currently underway.

TennACADA –McCay announced that the planning meeting for spring events will be held next week.

ASSOCIATE DEANS GROUP REPORT

September 23, 2011 Meeting Minutes

Present: Tom George (EHHS), Michelle Gilbert (Provost staff), RJ Hinde (A&S), Jan Lee (Nursing), Catherine Luther (CCI), Sally McMillan (chair), Masood Parang (COE), Annette Ranft (CBA), John Stier (CASNR), Rita Smith (Libraries), and Scott Wall (CoAD)

Approval of August Minutes

Academic Common Market- continued discussion from last meeting. College of Business did some follow-up on Logistic students in ACM and concluded that currently most remain in the program. General consensus that we continue to participate in ACM for graduate and undergraduate programs. Determine if NC is still participating at grad level. Group is also interested in THEC comparisons.

Timetable/Section Time Analysis-discussed briefly the data provided by Jennifer Hardy. A little difficulty interpreting the data so the item was tabled. Will invite Jennifer to the next meeting and interpret and answer questions.

Summer School- shared report-asked group to not distribute freely-overall, didn't meet goals. EHHS and CoAD had good results and benefited from the new incentives. Noticed increase in 2d session and increase in grad enrollments and increase in waivers for faculty/staff/family enrollments which resulted in loss of revenue. For next summer work on better ways to market classes. Hope will be available next summer, still working out logistics. Possible online courses as options.

Textbook Orders-the group was encouraged to communicate with departments and faculty the importance of reporting to bookstore regardless of whether ordering from them or not which will help the bookstore manage the demand. The bookstore is under legal obligations to provide books for students and would help in estimating cost/demand.

Top 25 Investment Process-Chairs are accessing plans to present to Chancellor

Other- High Demand Courses-get bottleneck info and data to support no later than Mon to possibly include with proposal for resources.

CURRICULUM COMMITTEE REPORT

The Curriculum Committee met on January 17, 2012, at 2:00pm in the 4th floor conference room of Andy Holt Tower.

Present: Monique Anderson, Mari Beth Coleman, Marleen Davis (for Scott Wall), George Drinnon, Jeff Fairbrother, Tom George, R.J. Hinde, Catherine Luther, John Mount (chair), Cheryl Norris, Michael Palenchar, Masood Parang, Chris Pionke, Gary Ramsey, John Stier, Matthew Theriot, Suzanne Wright

Curricular proposals from the areas listed below were reviewed and approved.

- College of Agricultural Sciences and Natural Resources
- College of Architecture and Design
- College of Arts and Sciences
- College of Business Administration
- College of Communication and Information
- College of Education, Health and Human Sciences
- College of Engineering
- College of Nursing
- College of Social Work
- First-Year Studies Program
- University Honors Program

The meeting adjourned at 4:50pm.

* General education course

† Cross-listed course

◆ Add or drop of major, concentration, minor

COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

All changes effective Fall 2012

PART I. COURSE CHANGES**DEPARTMENT OF AGRICULTURAL AND RESOURCE ECONOMICS****(AREC) Agricultural and Resource Economics**

REVISE (RE) PREREQUISITE, ADD COMMENT

420 International Agricultural Trade and Marketing (3)

(RE) Prerequisites: 320 or Economics 311.

Comment(s): Graduate standing may satisfy prerequisites.

Formerly: (RE) Prerequisite: 320.

REVISE (RE) PREREQUISITE

430 Food and Agricultural Policy (3)

(RE) Prerequisites: 320 or Economics 311.

Formerly: (RE) Prerequisite: 320.

460 Rural Economic Development (3)

(RE) Prerequisites: 320 or Economics 311.

Formerly: (RE) Prerequisite: 320.

472 Natural Resource Economics (3)

(RE) Prerequisites: 320 or Economics 311.

Formerly: (RE) Prerequisite: 320.

ADD COMMENT

412 Agricultural Finance (3)

Comment(s): Graduate standing may satisfy prerequisites.

442 Agribusiness Management (3)

Comment(s): Graduate standing may satisfy prerequisites.

445 Economics of Biomass for Renewable Energy (3)

Comment(s): Graduate standing may satisfy prerequisites.

470 Policy Analysis for Environmental and Natural Resource Management (3)

Comment(s): Graduate standing may satisfy prerequisites.

DEPARTMENT OF AGRICULTURAL LEADERSHIP, EDUCATION AND COMMUNICATIONS**(078) (ALEC) Agricultural Leadership, Education and Communications**

ADD (RE) PREREQUISITE

303 Agricultural Leadership, Education and Communications (3)

(RE) Prerequisite(s): 102 or 103.

304 Agricultural Leadership, Education and Communications (3)

(RE) Prerequisite(s): 102 or 103.

ADD (RE) PREREQUISITE, ADD REGISTRATION RESTRICTION

450 Agricultural Leadership, Education and Communications (3)

(RE) Prerequisite(s): 303 and 304.

Registration Restriction(s): Minimum student level—senior.

DEPARTMENT OF ANIMAL SCIENCE

(113) (ANSC) Animal Science

ADD

486 Sheep and Goat Management (3) Integration of principles of nutrition, breeding, physiology, and marketing into complete production and management programs. Structure of industry, enterprise establishment, systems of production, production practices, and improvement programs. Management evaluated in terms of production response and economic returns.

Contact Hour Distribution: 2 hours lecture and 1 lab.

(RE) Prerequisite(s): 330 and 380.

(RE) Corequisite(s): 320 and 340.

DROP

381 Animal Nutrition and Management Systems (3)

REVISE DESCRIPTION

†320 Reproductive Physiology and Lactation (3) Reproductive anatomy and physiology and lactation in agriculturally-important and companion animals, humans, and to a lesser extent avian and zoo animal species. This is a core course for Animal Science majors and an elective for Biochemistry, Cellular and Molecular Biology majors. Course materials may also be of interest to students majoring in other majors in agriculture, biological and life sciences. *(Same as Biochemistry and Cellular and Molecular Biology 320.)*

Formerly: Biology of sex and sexual differentiation, functional anatomy of male and female, reproduction and lactation, gametogenesis, neuroendocrinology and endocrinology of reproduction and lactation, sex cycles, folliculogenesis, ovulation, spermatogenesis, fertilization, embryonic development, implantation, pregnancy, parturition, initiation of lactation and maintenance of the dry period, artificial control of reproduction and lactation. *(Same as Biochemistry and Cellular and Molecular Biology 320.)*

REVISE (RE) PREREQUISITE

430 Nutrient Evaluation and Ration Formulation (3)

(RE) Prerequisite(s): 330 or consent of instructor.

Formerly: (RE) Prerequisite(s): 330.

REVISE (RE) PREREQUISITE, DROP (DE) PREREQUISITE

340 Animal Breeding and Genetics (3)

(RE) Prerequisite(s): 220 and Mathematics 115 or above.

Formerly: (RE) Prerequisite(s): Mathematics 125 or 151.

(DE) Prerequisite(s): 220 and Math 141.

DEPARTMENT OF BIOSYSTEMS ENGINEERING AND SOIL SCIENCE

(194) (BSET) Biosystems Engineering Technology

ADD

335 Construction Documents and Estimating (3) Types and interpretation of construction documents, plans, specifications, and schedules of materials, and considerations of document control; Introduction to construction estimating, including types of estimates, their uses, quantity takeoffs, costs of work, overhead, submitting the bid, application of spreadsheets for basic estimating.

345 Green Construction and Construction Safety (3) Considerations for energy efficient and environmentally sustainable buildings and development practices, practical and measurable aspects of building elements and corresponding building certification systems; Construction safety, including the recognition, avoidance, abatement, and prevention of construction safety and health hazards.

355 Project Planning and Scheduling (3) Parameters affecting project planning, presentation of schedule information, network diagramming and calculation with the critical path method, resource allocation and management, productivity planning, computer applications.

435 Construction Finance/Accounting and Law (3) Construction finance and cost accounting, industry formats, fixed and variable costs, record and report practices; capital equipment, depreciation, and expensing; forecasting costs and cash flow requirements, payment processes and time value of money, surety bonds and insurance; construction law, construction contracts, legal roles and responsibilities, the regulatory environment and licensing, lien laws and the contractor's rights, national and local labor law, administrative procedures to avoid disputes.

(RE) Prerequisite(s): Accounting 200.

Comment(s): Graduate standing may satisfy prerequisites.

ADD AND REQUEST VARIABLE TITLE

480 Selected Topics (1-3) Current issues and problems in biosystems engineering technology and related fields.

REVISE TITLE, REVISE DESCRIPTION

325 Structural and Soil Mechanics in Construction (3) Introduction to building systems, loads, forces; statics and strength of materials for builders; physical behavior of soils as a construction material; overview of geology and the formation of soil; index properties and engineering classification; mechanical properties of soils; compaction theory; excavation and OSHA requirements for trench safety, earthwork contract documents.

Formerly: Soils in Construction Introduction to the physical behavior of soils as a construction material; overview of geology and the formation of soil; index properties and engineering classification; mechanical properties of soils; compaction theory; excavation and OSHA requirements for trench safety, earthwork contract documents.

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

(390) (FDST) Food Science and Technology

ADD AND CROSSLIST

†421 Food Microbiology (3) Physical, chemical, and environmental factors moderating growth and survival of foodborne microorganisms. Pathogenic and spoilage microorganisms affecting quality of foods and their control. *(Same as Microbiology 421.)*
(RE) Prerequisite(s): Microbiology 210 or 310.

DROP

420 Food Microbiology (3)

Equivalency Table

Current Course	Equivalent Courses Effective Fall 2012
Food Science and Technology (FDST)	Food Science and Technology (FDST)
420	421

DEPARTMENT OF FORESTRY, WILDLIFE AND FISHERIES

(396) (FORS) Forestry

ADD

345 Practical Arboriculture (2) Students will be exposed to modern hands-on techniques in arboriculture that will demonstrate real-world situations and teach students to respond appropriately. Techniques covered will include climbing, cabling, bracing, and pruning.

430 Inventory and Assessment of Urban Land (2) Students will actively participate in tree inventory techniques used in three major metropolitan cities in Tennessee. Different tree inventory techniques (i.e. fGIS, i-Tree, modification of FIA) are used throughout the state of Tennessee. Students will be exposed to the latest technology used both by Regional and City Urban Foresters.

433 Urbanization and Urban Soils (2) Course will cover the below-ground factors that affect tree establishment and survival in urban areas, specifically addressing the importance's of soil structure, density, pH, water availability, and chemical properties (i.e. minerals, CEC).

435 Trees and the Law (1) Course will evaluate tree law cases in the United States, focusing primarily on tree problems between private neighbors, government, and public utilities.

(993) (WFS) Wildlife and Fisheries Science

ADD AND CROSSLIST

†**401 Ecology and Management of Wildlife Health (3)** Review of ecological and environmental factors affecting wildlife health, and tools available for effective wildlife disease surveillance and management. Emphasis on the importance of multidisciplinary and interagency collaboration for management of wildlife health problems. (*Same as Wildlife and Fisheries Science 501.*)

DROP

301 Ecology and Management of Wildlife Health (3)

Equivalency Table

Current Course Wildlife and Fisheries Science (WFS)	Equivalent Courses Effective Fall 2012 Wildlife and Fisheries Science (WFS)
301	401

DEPARTMENT OF PLANT SCIENCES

(791) (PLSC) Plant Sciences

REVISE CREDIT HOURS

348 Landscape Plant Physiology (3)

Formerly: (2)

PART II. PROGRAM CHANGES

REVISE COLLEGE TEXT (MAJORS, CONCENTRATIONS, AND DEPARTMENTS HEADING)

- Agricultural leadership, education and communications with concentrations in agricultural communications, agricultural education, agricultural extension education, agricultural leadership, and agricultural science (Agricultural Leadership, Education and Communications Program).
- Animal science with concentrations in animal industries, bioscience, pre-veterinary medicine, and pre-veterinary medicine 3+1 (Department of Animal Science).
- Biosystems Engineering with a pre-professional concentration (Department of Biosystems Engineering and Soil Science).
- Environmental and soil sciences with concentrations in agricultural systems technology, **conservation agriculture and environmental sustainability**, construction science, environmental science, land surveying, off-road vehicle technology, and soil science (Department of Biosystems Engineering and Soil Science).

- Food and agricultural business with a concentration in agricultural equipment systems management (Department of Agricultural and Resource Economics).
- Food science and technology with concentrations in pre-pharmacy, pre-professional, technology/business, and science (Department of Food Science and Technology).
- Forestry with concentrations in forest resources management, -and wildland recreation, and urban forestry (Department of Forestry, Wildlife and Fisheries).
- Natural resource and environmental economics (Department of Agricultural and Resource Economics).
- Plant sciences with concentrations in bioenergy, biotechnology, horticulture science and production, landscape design, organic production, public horticulture, and turfgrass science and management (Department of Plant Sciences).

REVISE COLLEGE TEXT (MINORS AND DEPARTMENTS HEADING)

- Agricultural leadership (Agricultural Leadership, Education and Communications Program).
- Animal science (Department of Animal Science).
- Biosystems engineering technology (Department of Biosystems Engineering and Soil Science).
- Entomology and plant pathology (Department of Entomology and Plant Pathology).
- Environmental and soil sciences (Department of Biosystems Engineering and Soil Science).
- Food and agricultural business (Department of Agricultural and Resource Economics).
- Food science (Department of Food Science and Technology).
- Food technology (Department of Food Science and Technology).
- Forestry (Department of Forestry, Wildlife and Fisheries).
- Natural resource and environmental economics (Department of Agricultural and Resource Economics)
- Plant sciences (Department of Plant Sciences).
- Wildlife and fisheries science (Department of Forestry, Wildlife and Fisheries).
- International agriculture and natural resources (Office of the Dean).
- Watershed (Office of the Dean).

REVISE COLLEGE TEXT (ADD VOLS TEACH PARAGRAPH BEFORE ACADEMIC PROGRAMS HEADING)

VolsTeach Program

Students pursuing a major in Biosystems Engineering are eligible to participate in the University's VolsTeach program (<http://volsteach.utk.edu/>), which permits students to simultaneously complete a major in engineering and receive secondary education teaching licensure through completion of a VolsTeach minor. For more information about VolsTeach, including advising associated with teaching licensure requirements, contact the Center for Enhancing Education in Mathematics and Science (100 Greve Hall).

◆ ADD (INTERDISCIPLINARY) WATERSHED MINOR

Growing awareness of the complexity of water quantity and quality issues related to human activities leads to dealing with those issues on a watershed scale. This minor is for undergraduate students wishing to develop expanded skills in watershed science/engineering, planning and design, and culture and policy issues related to water. These skills are especially useful for careers in natural resource policy, water and land management, sustainable development and design for private industry, and storm water management for government agencies. More information is available at: <http://watershed.utk.edu/default.html>.

Minor Requirements

The minor consists of **18 hours**. Note that some courses may have prerequisites.

Watershed Core

Select 3 hours:

- BSE 416 - Environmental Hydrology
- BSET 474 - Environmental Instrumentation and Monitoring
- CE 494 - Water Resources Engineering II
- ESS 324 - Soil and Water Conservation
- GEOG 433 - The Land-Surface System
- GEOG 436 - Water Resources

Science/Engineering

Select 3 hours:

- BSE 416 - Environmental Hydrology
- BSET 326 - GIS/GPS Applications in Agriculture and Environmental Science
- BSET 474 - Environmental Instrumentation and Monitoring
- CE 381 - Environmental Engineering I
- CE 391 - Water Resources Engineering I
- CE 481 - Environmental Engineering II
- CE 485 - Principles of Hydrogeology
- CE 494 - Water Resources Engineering II
- EEB 404 - Ecosystem Ecology
- EEB 470 - Aquatic Ecology
- EEB 474 - Ichthyology
- ESS 210 - Introduction to Soil Science
- ESS 324 - Soil and Water Conservation
- ESS 444 - Environmental Soil Chemistry
- ESS 454 - Environmental Soil Biology
- ESS 462 - Environmental Climatology
- FORS 414 - Tree Physiology
- GEOG 433 - The Land-Surface System
- GEOG 434 - Climatology
- GEOG 436 - Water Resources
- GEOL 450 - Process Geomorphology
- GEOL 485 - Principles of Hydrogeology
- WFS 295 - Practicum in Wildlife and Fisheries Science
- WFS 433 - Amphibian Ecology and Conservation
- WFS 443 - Fisheries Science

Cultures/Society**Select 3 hours:**

- ESS 120 - Soils and Civilizations
- ESS 220 - Water and Civilizations
- FWF 250 - Conservation
- PHIL 346 - Environmental Ethics
- SOCI 360 - Environment and Resources
- SOCI 465 - Social Values and the Environment

Policy**Select 3 hours:**

- AREC 315 - Agricultural and Environmental Law
- AREC 470 - Policy Analysis for Environmental and Natural Resource Management
- AREC 472 - Natural Resource Economics
- ECON 362 - Environmental and Natural Resource Policy
- ECON 463 - Environmental Economics

Select 6 hours:

- Any courses from the prior lists not already taken for the minor

DEPARTMENT OF AGRICULTURAL AND RESOURCE ECONOMICS**REVISE FOOD AND AGRICULTURAL BUSINESS MAJOR (FOOTNOTES)****Second Year**

ACCT 200	3
AREC 212	3
AREC 201*	4
 FDST 101 or FDST 150	3
AGNR 290	3

² Arts and Humanities Elective*	3
⁴ ³ Physical Sciences Electives*	8
STAT 201*	3

Third Year

AREC 310, AREC 320, AREC 324, AREC 342, AREC 350, AREC 412	16
ALEC 440* or ENGL 360*	3
⁵ ⁴ Nondepartmental CASNR Electives	6
CMST 210* or CMST 240*	3
² Arts and Humanities Electives	3

Fourth Year

AREC 410, AREC 442	4
⁶ ⁵ Agricultural and Resource Economics Electives	12
Any 300-level Economics course	3
⁵ ⁴ Nondepartmental CASNR Electives	3
Free Electives	8

* Meets University General Education Requirement.

¹ Selected from BIOL 101, BIOL 102, BIOL 130, BIOL 140.

² Selected from any course on the University General Education list.

³ If FDST 150 is used as a General Education Cultures and Civilizations elective, then FDST 101 must be completed to fulfill this requirement.

⁴ ³ Selected from CHEM 100, CHEM 110, CHEM 120, CHEM 130, GEOG 131, GEOG 132, GEOL 101, GEOL 102, GEOL 103, ESS 210.

⁵ ⁴ Selected from any CASNR course with the following exceptions: 1) if ALEC 440 or ESS 120 or ESS 220 or FDST 150 are used to meet other requirements, they may not be used to meet this requirement; and 2) no more than three credit hours can be used from ALEC 492 or ANSC 360 and ANSC 461.

⁶ A maximum of 3 credit hours can be used from each of the following courses: AREC 356, AREC 492 and AREC 493.

REVISE NATURAL RESOURCE AND ENVIRONMENTAL ECONOMICS MAJOR**Fourth Year**

AREC 410, AREC 470, AREC 472	7
ECON 463	3
⁵ Agricultural and Resource Economics Electives	6
ALEC 440* or ENGL 360*	3
ECON 361 or ECON 471 ~~371~~ , or GEOG 340 or GEOG 345 or GEOG 436, or SOCI 360	3
² Arts and Humanities Elective*	3
Electives	5

DEPARTMENT OF AGRICULTURAL LEADERSHIP, EDUCATION AND COMMUNICATIONS**REVISE AGRICULTURAL LEADERSHIP, EDUCATION AND COMMUNICATIONS MAJOR—AGR COMMUNICATIONS CONC****Second Year**

ACCT 200	3
ADVT 250	3
² AREC 201* or ECON 201*	4
ALEC 211, ALEC 240*	6
¹ BIOL 101*-BIOL 102* or BIOL 111*-BIOL 112* or BIOL 130*-BIOL 140* (w/ lab)	8
AREC 212	3
JREM 200	3
Food Science and Technology Elective (any FDST course)	3

¹ Physical Science Electives—two courses (8 hours) from chemistry, physics, geology, GEOG 131-GEOG 132, ESS 210. CHEM 130 is a prerequisite/corequisite to BIOL 140. Therefore, students who choose BIOL 130-BIOL 140 should take CHEM 120-CHEM 130 for their physical science electives. **BIOL 111-BIOL 112 has no chemistry requirement.**

REVISE AGRICULTURAL LEADERSHIP, EDUCATION AND COMMUNICATIONS MAJOR—AGR EDUCATION CONC

First Year

AGNR 100 or ALEC 101	1
ALEC 102	3
AGNR 290	3
¹ BIOL 101*-BIOL 102* or BIOL 111*-BIOL 112* or BIOL 130*-BIOL 140*	8
² AREC 201* or ECON 201*	4
ENGL 101*, ENGL 102*	6
ESS 120* or ESS 220*	3
MATH 113*, MATH 115*	6

Second Year

ALEC 201, ALEC 202, ALEC 211	7
AREC 212	3
ANSC 280 220	3
³ Arts and Humanities Elective*	3
¹ Physical Science Electives*	8
ESS 210	4
PLSC 230 and PLSC 220 or PLSC 221	6

Third Year

ALEC 240*, ALEC 345	6
BSET 202, BSET 452	6
EDPY 401	3
EPP 313 or EPP 321	3
FORS, FWF, or WFS elective FWF 212 or FWF 317	3
PLSC 250	3
PSYC 110*	3
SPED 402	3
³ Cultures and Civilizations Elective*	3

Fourth Year

ALEC 434, ALEC 435, ALEC 436, ALEC 440*	18
ANSC 430 384	3
³ Arts and Humanities Elective*	3

¹ Physical Science Electives—two courses (8 hours) from chemistry, physics, geology, GEOG 131-GEOG 132, ESS 210. CHEM 130 is a prerequisite/corequisite to BIOL 140. Therefore, students who choose BIOL 130-BIOL 140 should take CHEM 120-CHEM 130 for their physical science electives. **BIOL 111-BIOL 112 has no chemistry requirement.**

REVISE AGRICULTURAL LEADERSHIP, EDUCATION AND COMMUNICATIONS MAJOR—AGR EXTENS EDUCATION CONC

First Year

ALEC 211	3
AGNR 100 or ALEC 101 , AGNR 290	1 4
AGNR 290	3
ANSC 280	3
¹ BIOL 101*-BIOL 102* or BIOL 111*-BIOL 112* or BIOL 130*-BIOL 140*	8
ENGL 101*, ENGL 102*	6
ESS 120* or ESS 220*	3

MATH 113* and Quantitative Reasoning course* 6

Second Year

ALEC 201, ALEC 240* 4
 AREC 212 3
 ANSC 220 3
¹Physical Science Electives* 8
²AREC 201* or ECON 201* 4
 ESS 210 4
 PLSC 210 415 3
 PSYC 110* 3

Third Year

ALEC 345 3
 AREC 315 342 3
 ANSC 330 3
 EPP 313 or EPP 321 3
 ESS 334 3
 FDST 269 2
 FORS, FWF, or WFS elective FWF-250 3
^{3,4}Cultures and Civilizations Elective* 3
^{3,4}Art and Humanities Elective* 3

Fourth Year

ALEC 434 3
⁴Agricultural Sciences and Natural Resources Elective 3
 ANSC 430 384 3
 BSET 412, BSET 432, BSET-442, BSET 462 9
 PLSC 330 or PLSC 430 2-3
^{3,4}Art and Humanities Elective* 3
⁴Free Electives 4-5
Total
125

¹ Physical Science Electives-two courses (8 hours) from chemistry, physics, geology, GEOG 131-
 GEOG 132, ESS 210. CHEM 130 is a prerequisite/corequisite to BIOL 140. Therefore, students who
 choose BIOL 130-BIOL 140 should take CHEM 120-CHEM 130 for their physical science electives.
 BIOL 111 - BIOL 112 has no chemistry requirement.

REVISE AGRICULTURAL LEADERSHIP, EDUCATION AND COMMUNICATIONS MAJOR—AGR LEADERSHIP CONC**Second Year**

ALEC 202, ALEC 211, ALEC 240* 9
 Animal Science Elective (any ANSC course) 3
¹Physical Science Electives* 8
²AREC 201* or ECON 201* 4
 Environmental and Soil Science Elective (any ESS course) 4
 FDST 101 or FDST 150* Food Science and Technology Elective (any FDST course) 3

Third Year

ALEC 303, ALEC 304, ALEC 440* 9
 EPP 313 or EPP 321 3
³Cultures and Civilizations Elective* 3
³Arts and Humanities Elective* 3
 Plant Sciences Elective (any PLSC course) 3
 PHIL 244* or PHIL 252*; and PHIL 346* 6 3
 ANSC 495 3

Fourth Year

ALEC 412, ALEC 450, ALEC 492	10
Biosystems Engineering and Technology Elective (any BSET course)	3
³ Cultures and Civilizations Elective*	3
^{2, 3} Social Sciences Elective*	3
⁴ Free Electives	~~7~~ 10

¹ Physical Science Electives—two courses (8 hours) from chemistry, physics, geology, GEOG 131-
GEOG 132, ESS 210. CHEM 130 is a prerequisite/corequisite to BIOL 140. Therefore, students who
choose BIOL 130-BIOL 140 should take CHEM 120-CHEM 130 for their physical science electives.

BIOL 111- BIOL 112 has no chemistry requirements.

REVISE AGRICULTURAL LEADERSHIP, EDUCATION AND COMMUNICATIONS MAJOR—AGR SCIENCE CONC

First Year

AGNR 100 or ALEC 101 ,AGNR-290	~~1~~ 4
AGNR 290	~~3~~
ANSC 160	3
¹ Physical Science Electives*	8
ENGL 101*, ENGL 102*	6
MATH 113* and Quantitative Reasoning Course*	6
PLSC ~~210~~ 115	3

Second Year

ALEC 211, ALEC 240*	6
AREC 212	3
FDST 101 or FDST 150*	3
¹ BIOL 101*-BIOL 102* or BIOL 111*, BIOL 112* or BIOL 130*-BIOL 140*	8
ESS 210	4
PLSC 250	3
² AREC 201* or ECON 201*	4

Third Year

AREC ~~315~~ 342	3
EPP 313 or EPP 321	3
^{3, 4} Cultures and Civilizations Elective*	3
^{3, 4} Arts and Humanities Elective*	3
PLSC 230 or PLSC 435 PLSC-330 or PLSC-430	~~3~~ 2-3
⁵ Minor	15

Fourth Year

⁵ Minor	9
³ Agricultural Sciences and Natural Resources Electives	9
^{3, 4} Arts and Humanities Elective*	3
^{3, 4} Cultures and Civilizations Elective*	3
^{2, 3, 4} Social Sciences Elective*	3
³ Free Electives	~~2~~ 2-3
Total	120

¹ Physical Science Electives—two courses (8 hours) from chemistry, physics, geology, GEOG 131-
GEOG 132, ESS 210. CHEM 130 is a prerequisite/corequisite to BIOL 140. Therefore, students who
choose BIOL 130-BIOL 140 should take CHEM 120-CHEM 130 for their physical science electives.

BIOL 111-BIOL 112 has no chemistry requirement.

DEPARTMENT OF ANIMAL SCIENCE

REVISE ANIMAL SCIENCE MAJOR—ANIMAL INDUSTRIES CONCENTRATION

Second Year

ANSC 220, ANSC 280*	6
AGNR 290	3
ESS 210	4
AREC 201*	4
¹ Arts and Humanities Electives*	6
² Business Administration minor or ³ Food and Agricultural Business minor ~~or~~ ~~⁴Communication and Information minor~~	3
¹ Social Science Elective*	3
Free Electives	3

Third Year

ANSC 320, ANSC 330, ANSC 340, ANSC 380, ANSC 395	13
~~⁴~~ ⁵ Biological Science Restricted Elective	3
¹ Cultures and Civilizations Electives*	6
ANSC 360*	3
² Business Administration minor or ³ Food and Agricultural Business minor ~~or~~ ~~⁴Communication and Information minor~~	6

Fourth Year

ANSC 430, ANSC 495	4
Select two courses from: ANSC 481 or ANSC 482 ~~or ANSC 486~~ ; ANSC 483 or ANSC 484; ANSC 485 or ANSC 489	6
² Business Administration minor (10 credits) or ³ Food and Agricultural Business minor (9 credits) ~~or ⁴Communication and Information minor (9 credits)~~	9-10
Free Electives	5-8

² Requirements for the business administration minor are ACCT 200 (3); ECON 201 (4); STAT 201 (3); MGT 201 (3); FINC 300 (3); MARK 300 (3); MGT 300 (3). Total 22 hours.

³ Requirements for the food and agricultural business minor are ACCT 200 (3); AREC 201, AREC 212, AREC 342, AREC 350, AREC 412 (16); Agricultural and Resource Economics elective (3). Total 22 hours.

~~⁴ Requirements for the communication and information minor are CCI 150 (3); select 6 hours from ADVT 250, CMST 201, INSC 102, JREM 175, JREM 200, or PBRL 270; select 9 hours of 300-level or above from one or more of the following areas: advertising, communication studies, information sciences, journalism and electronic media, or public relations. Total 18 hours.~~

~~⁵ ANSC 385, ANSC 420, Biochemistry and Cellular and Molecular Biology (any course above 200 except BCMB 320); Ecology and Evolutionary Biology (any course above 200); EPP 201, EPP 313, EPP 321, EPP 325, EPP 410; ESS 454; KNS 480; FDST 241, FDST 410, FDST 421 420, FDST 429, FDST 445; FORS 214, FORS 215, FORS 331, FORS 332, FORS 414; FWF 212, FWF 250, FWF 317, FWF 320; Microbiology (any course above 200); NUTR 100, NUTR 302, NUTR 310, NUTR 313, NUTR 314, NUTR 412, NUTR 415, NUTR 416, NUTR 420; PLSC 210, PLSC 220, PLSC 330, PLSC 341, PLSC 343, PLSC 348, PLSC 452, PLSC 370, PLSC 410, PLSC 421, PLSC 434, PLSC 435, PLSC 442, PLSC 450; PSYC 370, PSYC 450, PSYC 459, PSYC 461; ~~WFS 301~~; WFS 340, WFS 350, **WFS 401**, WFS 440, WFS 442, WFS 443, WFS 444, WFS 445, WFS 450, WFS 455, WFS 456.~~

REVISE ANIMAL SCIENCE MAJOR—BIOSCIENCE CONCENTRATION

Fourth Year

ANSC 495	1
Select two courses from: ANSC 481 or ANSC 482 ~~or ANSC 486~~ ; ANSC 483 or ANSC 484; ANSC 485 or ANSC 489	6
¹ Arts and Humanities Elective*	3
³ Biological Science Restricted Elective	3
¹ Cultures and Civilizations Elective*	3
¹ Social Science Elective*	3

⁴Business Elective
Free Electives

5
7-9

² Astronomy (100 and above); ~~BCMB-310~~, BCMB 401, BCMB 402, BCMB 419, BCMB 481; Biosystems Engineering (221 and above); Chemical and Biomolecular Engineering (200 and above); Chemistry (100 and above); Civil Engineering (210 and above); Electrical and Computer Engineering (200 and above); Engineering Fundamentals (101 and above); ESS 434, ESS 444; KNS 422; FDST 410, FDST 445; GEOL 310, GEOL 330, GEOL 340, GEOL 370, GEOL 380, GEOL 460, GEOL 471, GEOL 485; Industrial Engineering (200 and above); Math (110 and above); Materials Science and Engineering (200 and above); Mechanical Engineering (200 and above); Nuclear Engineering (200 and above); NUTR 310; Physics (135 and above); PLSC 461; PSYC 385; Statistics (200 and above).

³ ANSC 385, ANSC 420, ANSC 430; Biochemistry and Cellular and Molecular Biology (any course above 200); Ecology and Evolutionary Biology (any course above 200 except BCMB 320); EPP 201, EPP 313, EPP 321, EPP 325, EPP 410; ESS 454; KNS 480; FDST 241, FDST 410, FDST ~~421 420~~, FDST 429, FDST 445; FORS 214, FORS 215, FORS 331, FORS 332, FORS 414; FWF 212, FWF 250, FWF 317, FWF 320; Microbiology (any course above 200); NUTR 100, NUTR 302, NUTR 310, NUTR 313, NUTR 314, NUTR 412, NUTR 415, NUTR 416, NUTR 420; PLSC 210, PLSC 220, PLSC 330, PLSC 341, PLSC 343, PLSC 348, PLSC 452, PLSC 370, PLSC 410, PLSC 421, PLSC 434, PLSC 435, PLSC 442, PLSC 450; PSYC 370, PSYC 450, PSYC 459, PSYC 461; ~~WFS 301~~, WFS 340, WFS 350, ~~WFS 401~~, WFS 440, WFS 442, WFS 443, WFS 444, WFS 445, WFS 450, WFS 455, WFS 456.

⁴ ACCT 200; ~~ANSC 361~~; AREC 212, AREC 320 and above; MGT 201; FINC 300; Economics (any course above 201); MGT 300; MARK 300, ANSC 385.

REVISE ANIMAL SCIENCE MAJOR—PRE-VETERINARY MEDICINE CONCENTRATION

Second Year

ANSC 220, ANSC 280*	6
AGNR 290	3
CMST 210* or CMST 240* or ANSC 360*	3
¹ Arts and Humanities Elective*	3
AREC 201*	4
CHEM 350, CHEM 360, and CHEM 369	8
⁴ ~~Directed Technical Elective~~ ~~BIOL-240~~	4

Fourth Year

ANSC 495	1
Select two courses from: ANSC 481 or ANSC 482 ~~or ANSC 486~~ ; ANSC 483 or ANSC 484; ANSC 485 or ANSC 489	6
² Biological Science Restricted Elective	3
BCMB 401	4
¹ Cultures and Civilizations Elective*	3
¹ Social Science Elective*	3
³ Business Electives	5
Free Electives	5-7

² ANSC 385, ANSC 420, ANSC 430; Biochemistry and Cellular and Molecular Biology (any course above 200 except BCMB 320); Ecology and Evolutionary Biology (any course above 200); EPP 201, EPP 313, EPP 321, EPP 325, EPP 410; ESS 454; KNS 480; FDST 241, FDST 410, FDST ~~421 420~~, FDST 429, FDST 445; FORS 214, FORS 215, FORS 331, FORS 332, FORS 414; FWF 212, FWF 250, FWF 317, FWF 320; Microbiology (any course above 200); NUTR 100, NUTR 302, NUTR 310, NUTR 313, NUTR 314, NUTR 412, NUTR 415, NUTR 416, NUTR 420; PLSC 210, PLSC 220, PLSC 330, PLSC 341, PLSC 343, PLSC 348, PLSC 452, PLSC 370, PLSC 410, PLSC 421, PLSC 434, PLSC 435, PLSC 442, PLSC 450; PSYC 370, PSYC 450, PSYC 459, PSYC 461; ~~WFS 301~~, WFS 340, WFS 350, ~~WFS 401~~, WFS 440, WFS 442, WFS 443, WFS 444, WFS 445, WFS 450, WFS 455, WFS 456.

³ ACCT 200; ~~ANSC 361~~; AREC 212, AREC 320 and above; MGT 201; FINC 300; Economics (any course above 201); MGT 300; MARK 300.

⁴~~Any biological sciences course not already required.~~

REVISE ANIMAL SCIENCE MAJOR—PRE-VETERINARY MEDICINE 3+1 CONCENTRATION

This program allows students to be awarded a Bachelor of Science in Animal Science after the successful completion of the first two semesters in the College of Veterinary Medicine (CVM). Students must begin this program early in the pre-veterinary curriculum. The specific requirements are as follows.

- Completion of all pre-veterinary requirements.
 - ENGL 101, ENGL 102 (3,3) – 6 hours
 - Humanities and Social Sciences – 18 hours
 - PHYS 221, PHYS 222 (4,4) – 8 hours
 - CHEM 120-CHEM 130 (4,4) – 8 hours
 - CHEM 350, CHEM 360 and Laboratory CHEM 369 (3,3,2) – 8 hours
 - BCMB 401 (4) – 4 hours
 - BIOL 130, BIOL 140 (4,4) – 8 hours
 - ~~BIOL 240 – 4 hours~~ or ANSC 340 – 3 hours
 - Biology Elective – 4 hours

Second Year

ANSC 220, ANSC 280*	6
² ~~Directed Technical Elective~~ ~~BIOL-240~~	4
AGNR 290	3
CMST 210* or CMST 240* or ANSC 360*	3
CHEM 350, CHEM 360, CHEM 369	8
PHYS 221*-PHYS 222*	8

²~~Any biological sciences course not already required.~~

REVISE ANIMAL SCIENCE MINOR

Complete:

ANSC 220 - Animal Anatomy and Physiology
 ANSC 280 - Animal Biotechnology and Management
~~ANSC 381 – Animal Nutrition and Management Systems~~
~~ANSC 430 - Nutrient Evaluation and Ration Formulation~~

Select one course:

ANSC 481 - Beef Management
 ANSC 482 - Dairy Management
 ANSC 483 - Swine Management
 ANSC 484 - Poultry Management
 ANSC 485 - Equine Management
 ANSC 489 - Companion and Exotic Animal Management

Select 9 hours:

ANSC 320 - Reproductive Physiology and Lactation
 ANSC 330 - Comparative Animal Nutrition
 ANSC 340 - Animal Breeding and Genetics
 ANSC 360 - Equine and Food Animal Evaluation
~~ANSC 361 – Beef Cattle Merchandising~~
 ANSC 380 - Animal Health Management
 ANSC 385 - Veterinary Entomology
 ANSC 420 - Reproductive Technologies
~~ANSC 430 – Nutrient Evaluation and Ration Formulation~~
 ANSC 481 - Beef Management
 ANSC 482 - Dairy Management
 ANSC 483 - Swine Management
 ANSC 484 - Poultry Management
 ANSC 485 - Equine Management
~~ANSC 486 - Sheep and Goat Management~~
 ANSC 489 - Companion and Exotic Animal Management

DEPARTMENT OF BIOSYSTEMS ENGINEERING AND SOIL SCIENCE**REVISE DEPARTMENT TEXT**

The Department of Biosystems Engineering and Soil Science offers two undergraduate degree programs – Bachelor of Science in Biosystems Engineering and Bachelor of Science in Environmental and Soil Sciences. Biosystems engineering is a four-year program, accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>, emphasizing engineering applications to biological systems. Environmental and soil sciences is a strong science-based program for students interested in environmental science, soil science, or engineering technology. Engineering technology concentrations include agricultural systems technology, **conservation agriculture and environmental sustainability**, construction science, land surveying, and off-road vehicle technology. Students in the land surveying concentration are eligible to sit for the Tennessee Professional Land Surveyor-In-Training exam (see for more details). Minors in either environmental and soil sciences or in biosystems engineering technology are also available. More detailed descriptions of each program are included with the curricular material that follows.

REVISE BIOSYSTEMS ENGINEERING PROGRAM TEXT (ADD AFTER LAST PARAGRAPH)

In keeping with the general College of Engineering requirement, all Biosystems Engineering undergraduate students are expected to have their own laptop computer. Please see the minimum computer requirements described at <http://www.engr.utk.edu/futurestudents/computers.html>.

REVISE BIOSYSTEMS ENGINEERING MAJOR

⁴ *Note that some electives have required prerequisites. See individual course descriptions for specific information.* BSET 412, BSET 414, BSET 432, BSET 434, BSET 452, BSET 462, BSET 474; CE 485, **CE 486**; CHEM 230, CHEM 310, CHEM 350, CHEM 360; **ECE 206**; ESS 334, ESS 434, ESS 442, ESS 444, ESS 454; GEOG 410, GEOG 411; GEOL 485; IE 304; MATH 403, MATH 405, MATH 411, MATH 431; ME 363, ME 365, ME 366, ME 391, ME 405, ME 451, ME 466; PHYS 232.

REVISE BIOSYSTEMS ENGINEERING TECHNOLOGY MINOR**Minor Requirements**

The minor consists of **15 18** hours.

Required Courses**Select one course: Complete:**

BSET 326 – GIS/GPS Applications in Agriculture and Environmental Science
BSET 412 - Surveying
BSET 414 – CAD Applications to Biosystems Engineering Technology
BSET 432—Agricultural Machinery and Tractors

Select one course:

BSET 202—Materials and Fabrication
BSET 412—Surveying
BSET 432 – Agricultural Machinery and Tractors
BSET 434 – Production Monitoring and Automation
BSET 452 – Small Internal Combustion Engines
BSET 462 – Agricultural Chemical Application Technology

Select three additional courses:

BSET 202 – Materials and Fabrication
BSET 325 – Structural and Soil Mechanics in Construction
BSET 326 – GIS/GPS Applications in Agriculture and Environmental Science
BSET 355 – Project Planning and Scheduling
BSET 432 – Agricultural Machinery and Tractors
BSET 412 - Surveying
BSET 414 – CAD Applications to Biosystems Engineering Technology
BSET 434 – Production Monitoring and Automation
BSET 452 – Small Internal Combustion Engines
BSET 462 – Agricultural Chemical Application Technology

BSET 474 – Environmental Instrumentation and Monitoring

REVISE ENVIRONMENTAL AND SOIL SCIENCES PROGRAM TEXT (2ND PARAGRAPH)

The science thrust provides options for ~~three~~ **two** concentrations, Soil Science, ~~and~~ Environmental Science, ~~and Conservation Agriculture and Environmental Sustainability~~. ~~All Both of these~~ provide a very strong basis in the natural sciences, as well as applied areas such as ecology, soil sciences, and natural resource policy. Students also build expertise with modern technologies such as geographical information systems, global positioning systems, and computer applications in natural resource management. Graduates are prepared to work in a wide variety of interesting and challenging career paths and to work with a broad variety of other professionals to solve complex problems. Examples of potential careers include soil and environmental specialists and scientists; state and federal regulatory agency work; private consulting in environmental and agricultural areas; and working with non-governmental organizations with interests in agriculture, environment, and natural resources. Students receiving this degree are also very competitive for placement in graduate programs in environmental and agricultural sciences and technology, as well as law school.

◆ ADD ENVIRONMENTAL AND SOIL SCIENCES MAJOR, CONSERVATION AGRICULTURE AND ENVIRONMENTAL SUSTAINABILITY CONCENTRATION, BS IN ENVIRONMENTAL AND SOIL SCIENCES

The conservation agriculture and environmental sustainability concentration is a multidisciplinary program for students interested in conservation of natural resources and sustainability of agricultural systems. This degree provides students with a wide array of skills and scientific training in identifying and understanding important issues in environmental sustainability. The focus will be on both the micro-scale and macro-scale of food production, as well as providing a solid introduction to technical skills such as surveying and machinery operations needed to fulfill current and future food demands. An undergraduate degree in this field is also a first step towards certification as a Professional Soil Scientist.

First Year

AGNR 100	1
BIOL 111*, BIOL 112*	8
CHEM 100*-CHEM 110* or CHEM 120*-CHEM 130*	8
ENGL 101*, ENGL 102*	6
ESS 220*	3
MATH 123*-MATH 125* or MATH 151*-MATH 152*	6-7

Second Year

AGNR 290	3
AREC 201*	4
¹ Arts and Humanities Elective*	3
ESS 120*	4
GEOL 101	4
ESS 210, ESS 324	7
STAT 201	3
PLSC 275	3

Third Year

ACCT 200	3
AREC 212	3
¹ Arts and Humanities Elective*	3
EPP 313, EPP 321	6
ESS 301*, ESS 334	4
PLSC 457	3
¹ Social Science Elective*	3
² Technical Elective	3
¹ ~~Communicating through~~ Writing ~~Concentration~~ Elective*	3

Fourth Year

AREC 342 or AREC 350, AREC 470	6
BSET 412, BSET 432 or BSET 462	6
ESS 442, ESS 462, ESS 444 or ESS 454	9

PLSC 415 or PLSC 435	3
² Technical Electives	6-7
Total	124

* Meets University General Education Requirement.

¹ Choose from the University General Education list.

² Note that some electives have required prerequisites. The prerequisites are either required in the major or are listed below. See individual course descriptions in the catalog for specific information. ANSC 220, ANSC 280, ANSC 320, ANSC 330, ANSC 380, ~~ANSC 384~~; BCMB 306, ~~BCMB 310~~, BCMB 311, BCMB 321, BCMB 401, BCMB 402, BCMB 404, BCMB 471, BCMB 481; BIOL 240, BIOL 250; Biosystems Engineering Technology (any course not required for the major); CHEM 230, CHEM 310, CHEM 319, CHEM 320, CHEM 329, CHEM 350, CHEM 360, CHEM 369, CHEM 430, CHEM 439, CHEM 471, CHEM 481; EEB 240, EEB 304, EEB 305, EEB 330, EEB 370, EEB 414, EEB 421, EEB 424, EEB 433, EEB 470, EEB 474, EEB 484, EEB 495; EPP 313, EPP 321; Environmental and Soil Sciences (any course not required for the major); FDST ~~421~~ ~~420~~, FDST 429; FORS 314, FORS 321; FWF 250, FWF 312, FWF 313, FWF 317, FWF 320, FWF 420; GEOG 101, ~~GEOG 102~~, GEOG 131, GEOG 132, GEOG 310, GEOG 334, GEOG 410, GEOG 411, GEOG 413, GEOG 414, GEOG 434, GEOG 436, GEOG 439; GEOL 102, GEOL 103, GEOL 201, GEOL 202, GEOL 203, GEOL 310, GEOL 370, GEOL 450, GEOL 455, GEOL 485; JREM 450, JREM 451; ~~MICR 210~~, MICR 310, MICR 319, MICR 410, MICR 411, MICR 470; PHYS 222; PLSC 250, ~~PLSC 415~~, PLSC 434, PLSC 435, PLSC 457, PLSC 461, ~~PLSC 465~~; POLS 300, POLS 330, POLS 340, POLS 430, POLS 431, POLS 440, POLS 442, POLS 470; SOCI 360, ~~SOCI 462~~, SOCI 465; Statistics (any course above 201).

³ Free electives may be selected from any courses not already required for the major.

REVISE ENVIRONMENTAL AND SOIL SCIENCES MAJOR—CONSTRUCTION SCIENCE CONCENTRATION

Second Year

³ ACCT 200	3
~~BSET 202~~ ~~AGNR 290~~	3
² Arts and Humanities Elective*	3
² Cultures and Civilizations Elective*	3
³ ECON 201*	4
ENGL 295* or ENGL 360*	3
ESS 210	4
PHYS 221*	4
CMST 210* or CMST 240*	3
³ STAT 201*	3

Third Year

BSET 325, ~~BSET 335~~ , ~~BSET 345~~ , BSET 412, BSET 414	~~15~~ 9
³ MGT 201	3
BULW 301	2
² Cultures and Civilizations Elective*	3
~~CE 442~~	~~3~~
ESS 324	3
³ MGT 300	3
⁴ Technical Elective	3

Fourth Year

² Arts and Humanities Elective*	3
~~BSE 404~~	~~3~~
~~BSET 355~~ , BSET 411, BSET 432, ~~BSET 435~~	~~10~~ 4
~~CE 543~~	~~3~~
³ FINC 300	3
³ MARK 300	3
⁴ Technical Electives	~~6~~ 9
⁴ ~~Technical Elective or ESS 492~~	~~3~~
Total	~~124~~ 121

⁴ Note that some electives have required prerequisites. See individual course descriptions in the catalog for specific information.
~~BSET 202~~, ~~BSET 326~~, ~~BSET 434~~, ~~BSET 474~~; ~~ESS 492~~; ~~ESS 334~~, ~~ESS 444~~. ~~IE 423~~.

REVISE ENVIRONMENTAL AND SOIL SCIENCES MAJOR—ENVIRONMENTAL SCIENCE CONCENTRATION

² Note that some electives have required prerequisites. The prerequisites are either required in the major or are listed below. See individual course descriptions in the catalog for specific information. ANSC 220, ANSC 280, ANSC 320, ANSC 330, ANSC 380, ~~ANSC 381~~; BCMB 306, ~~BCMB 310~~, BCMB 311, BCMB 321, BCMB 401, BCMB 402, BCMB 404, BCMB 471, BCMB 481; BIOL 240, BIOL 250; Biosystems Engineering Technology (any course not required for the major); CHEM 230, CHEM 310, CHEM 319, CHEM 320, CHEM 329, CHEM 350, CHEM 360, CHEM 369, CHEM 430, CHEM 439, CHEM 471, CHEM 481; EEB 240, EEB 304, EEB 305, EEB 330, EEB 370, EEB 414, EEB 421, EEB 424, EEB 433, EEB 470, EEB 474, EEB 484, EEB 495; EPP 313, EPP 321; Environmental and Soil Sciences (any course not required for the major); FDST ~~421 420~~, FDST 429; FORS 314, FORS 321; FWF 250, FWF 312, FWF 313, FWF 317, FWF 320, FWF 420; GEOG 101, ~~GEOG 102~~, GEOG 131, GEOG 132, GEOG 310, GEOG 334, GEOG 410, GEOG 411, GEOG 413, GEOG 414, GEOG 434, GEOG 436, GEOG 439; ~~GEOL 101~~, GEOL 102, GEOL 103, GEOL 201, GEOL 202, GEOL 203, GEOL 310, GEOL 370, GEOL 450, GEOL 455, GEOL 485; JREM 450, JREM 451; ~~MICR 210~~, MICR 310, MICR 319, MICR 410, MICR 411, MICR 470; PHYS 222; PLSC 250, ~~PLSC 415~~, PLSC 434, PLSC 435, PLSC 457, PLSC 461, ~~PLSC 465~~; POLS 300, POLS 330, POLS 340, POLS 430, POLS 431, POLS 440, POLS 442, POLS 470; SOCI 360, ~~SOCI 462~~, SOCI 465; Statistics (any course above 201).

REVISE ENVIRONMENTAL AND SOIL SCIENCES MAJOR—SOIL SCIENCE CONCENTRATION

² Note that some electives have required prerequisites. The prerequisites are either required in the major or are listed below. See individual course descriptions in the catalog for specific information. ANSC 220, ANSC 280, ANSC 320, ANSC 330, ANSC 380, ~~ANSC 381~~; BCMB 306, ~~BCMB 310~~, BCMB 311, BCMB 321, BCMB 401, BCMB 402, BCMB 404, BCMB 471, BCMB 481; BIOL 240, BIOL 250; Biosystems Engineering Technology (any course not required for the major); CHEM 230, CHEM 310, CHEM 319, CHEM 320, CHEM 329, CHEM 350, CHEM 360, CHEM 369, CHEM 430, CHEM 439, CHEM 471, CHEM 481; EEB 240, EEB 304, EEB 305, EEB 330, EEB 370, EEB 414, EEB 421, EEB 424, EEB 433, EEB 470, EEB 474, EEB 484, EEB 495; EPP 313, EPP 321; Environmental and Soil Sciences (any course not required for the major); FDST ~~421 420~~, FDST 429; FORS 314, FORS 321; FWF 250, FWF 312, FWF 313, FWF 317, FWF 320, FWF 420; GEOG 101, ~~GEOG 102~~, GEOG 131, GEOG 132, GEOG 310, GEOG 334, GEOG 410, GEOG 411, GEOG 413, GEOG 414, GEOG 434, GEOG 436, GEOG 439; ~~GEOL 101~~, GEOL 102, GEOL 103, GEOL 201, GEOL 202, GEOL 203, GEOL 310, GEOL 370, GEOL 450, GEOL 455, GEOL 485; JREM 450, JREM 451; ~~MICR 210~~, MICR 310, MICR 319, MICR 410, MICR 411, MICR 470; PHYS 222; PLSC 250, ~~PLSC 415~~, PLSC 434, PLSC 435, PLSC 457, PLSC 461, ~~PLSC 465~~; POLS 300, POLS 330, POLS 340, POLS 430, POLS 431, POLS 440, POLS 442, POLS 470; SOCI 360, ~~SOCI 462~~, SOCI 465; Statistics (any course above 201).

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

REVISE FOOD SCIENCE AND TECHNOLOGY MAJOR—PRE-PHARMACY AND PRE-PHARMACY 3+1 CONC

Third Year

¹ <u>Arts and Humanities</u> Electives*	3
⁴ BCMB 401-BCMB 402	8
¹ <u>Cultures and Civilizations</u> Electives*	6
⁴ EEB 240	4
FDST 410 and ~~FDST 421 420~~ FDST 429	9
⁴ MICR 430	3
STAT 201* or Quantitative Reasoning Elective*	3

REVISE FOOD SCIENCE AND TECHNOLOGY MAJOR—PRE-PROFESSIONAL AND PRE-PROFESSIONAL 3+1 CONC

Second Year

CHEM 350, CHEM 360-CHEM 369	8
FDST 201	1
⁴ FDST 241	3
MICR 210* or higher	3
¹ Social Sciences Electives*	6
⁵ Directed Pre-Professional Requirements	~~12~~ 13

Third Year

¹ <u>Arts and Humanities</u> Electives*	3
--	---

¹ ~~Cultures and Civilizations~~ Electives*	6
⁵ Directed Pre-Professional Requirements	9
FDST 410 and ~~FDST 421 420~~ -FDST 429	9
STAT 201* or Quantitative Reasoning Elective*	3

Fourth Year

¹ ~~Communicating through Writing~~ Elective*	~~3~~
⁶ Communicating Orally Elective*	3
Electives	~~7-8~~ 9-10
⁷ Food Science and Technology Electives	9
NUTR 100*	3

* Meets University General Education Requirement.

¹ Choose from the University General Education list. ~~One of these courses must be a Communicating Through Writing (WC) course.~~

REVISE FOOD SCIENCE AND TECHNOLOGY MAJOR—SCIENCE CONCENTRATION

Third Year

BCMB 230, ~~BCMB 310~~ or BCMB 401	4-5
FDST 441	3
¹ Cultures and Civilizations Electives*	6
¹ ~~Communicating through Writing~~ Elective*	~~3~~
Communicating Orally Elective*	3
~~Electives~~	~~3-4~~
FDST 390, FDST 410 and FDST 430	10

Fourth Year

Electives	~~7-8~~ 7
FDST 401	1
FDST 415 and ~~FDST 421 420~~ -FDST 429	9
FDST 445, FDST 461 or FDST 462, FDST 495	9
FDST 493	3

* Meets University General Education Requirement.

¹ Chosen from the University General Education list. ~~One of these courses must be a Communicating Through Writing (WC) course.~~

REVISE FOOD SCIENCE AND TECHNOLOGY MAJOR—TECHNOLOGY / BUSINESS CONCENTRATION

First Year

¹ Arts and Humanities Electives*	6
² Biological Sciences	4
CHEM ~~120~~ 100*	4
³ English*	6
Elective 4	
FDST 101	3
⁴ Quantitative Reasoning course*	3

Second Year

CHEM 110* or CHEM 350	~~3-4~~ 4
~~CHEM 130*~~	~~4~~
MICR 210* or higher	3
⁵ FDST 241	3

¹ Social Sciences Electives*	6
⁶ Directed Technology/Business electives	~~3~~ 9
NUTR 100* ~~or ANSC 384~~	3
FDST 201	1

Third Year

FDST 390, FDST 410 and FDST 430	10
¹ Cultures and Civilizations Electives*	6
⁶ Directed Technology/Business Electives	6
STAT 201* or MATH 115*	3
Communicating Orally Elective*	3
¹ ~~Communicating through Writing Elective*~~	~~3~~
Electives	4

Fourth Year

FDST 401	1
FDST 415 and ~~FDST 421, 426~~ FDST 429	9
FDST 445, FDST 461 or FDST 462 and FDST 495	9
⁶ Directed Technology/Business Electives	6
FDST 493	3
~~Electives~~	~~5~~ 4
Total	120

* Meets University General Education Requirement.

¹ Chose from the University General Education list. ~~One of these courses must be a Communicating Through Writing (WC) course.~~

⁶ ACCT 200; ADVT 250; Agriculture and Natural Resources (any course); Agricultural ~~and Resource~~ Economics (any course); Animal Science (any course); BCMB 230, ~~BCMB 310~~, BCMB 401, BCMB 402; BIOL 101, BIOL 102, BIOL 111, BIOL 112, BIOL 140 or BIOL 240; Biosystems Engineering (any course); CHEM 130, CHEM 360, CHEM 369; CCI 150; CMST 201; EEB 240; ECON 201; Entomology and Plant Pathology (any course); Environmental and Soil Sciences (any course); FINC 300; FDST 269, FDST 430, FDST 441, FDST 461, FDST 493 (limit 3 hours for FDST 493); Forestry, Wildlife and Fisheries (any course); PUBH 430; HRT 210, HRT 311, HRT 326, HRT 445; INSC 102; JREM 175, JREM 200; MGT 201, MGT 300; MARK 300; MICR 430; NUTR 104, NUTR 201, NUTR 302, NUTR 303, NUTR 313, NUTR 314, NUTR 412, NUTR 415, NUTR 416, NUTR 420; PHYS 101, PHYS 102, PHYS 221 or PHYS 222; Plant Sciences (any course); PBRL 270; STAT 201.

DEPARTMENT OF FORESTRY, WILDLIFE AND FISHERIES**REVISE DEPARTMENT TEXT (SECOND PARAGRAPH)**

The department offers two majors. The major in forestry leads to the Bachelor of Science in Forestry and the major in wildlife and fisheries science leads to the Bachelor of Science in Wildlife and Fisheries Science. The forestry major has concentrations in forest resources management, ~~urban forestry~~ and wildland recreation. The wildlife and fisheries science major has concentrations in wildlife and fisheries management and wildlife health.

◆ ADD FORESTRY MAJOR, URBAN FORESTRY CONCENTRATION, BS IN FORESTRY

The urban forestry concentration is an interdisciplinary program emphasizing forestry, arboriculture, horticulture, urban forest management and urban wildlife. In addition to the general education courses, the urban forestry curriculum includes core courses in the traditional forestry discipline. The curriculum is designed to prepare graduates who can evaluate, plan, and resolve problems in an urban and traditional forest.

Foresters work closely with the public and private sector, so the development of excellent personnel management and communication skill is encouraged. In addition to the completion of courses, students are required to complete a 6-10 week professional internship experience (2 credits) in the summer prior to their senior year. Internships are structured to address specific learning objectives established by the instructor and field supervisor.

First Year**Hours Credit**

FORS 100	3
ENGL 101*, ENGL 102*	6
MATH 125*	3
BIOL 111*, BIOL 112*	8
CHEM 100*	4
¹ Arts and Humanities Elective	3
² Social Sciences Elective	3

Second Year

FORS 214	3
FORS 215 or BIOL 250	3-4
FWF 212	3
ECON 201* or AREC 201*	4
STAT 201*	3
PLSC 280	3
PLSC 210 or 220	3
ESS 210	4
CMST 210* or CMST 240*	3
¹ Cultures and Civilizations Elective	3

Third Year

FORS 314, FORS 321, FORS 335, FORS 345	10
FWF 312*, FWF 313, FWF 317, FWF 320	12
BSET 326 or GEOG 411	3
EPP 411	3
¹ Arts and Humanities Elective	3
¹ Cultures and Civilizations Elective	3

Fourth Year

FORS 323, FORS 331, FWF 416, FORS 422, FORS 430, FORS 433, FORS 435, FORS 496	16
WFS 350	2
³ Ethics Elective	3
⁴ Communication Elective*	3

Total 120

* Meet University General Education Requirement.

¹ General Education Electives. Choose two courses from Arts and Humanities and two courses from Cultures and Civilizations for a total of 12 credit hours. FWF 312 meets the Communication through Writing (WC) requirement.

² Choose from Anthropology 130, Political Science 102, Psychology 110, and Sociology 110 or 120.

³ Choose one course from PHIL 110* (AH), PHIL 252* (AH, WC), PHIL 346* (WC), PHIL 340* (WC) or PHIL 391* (WC). If the student selects an ethics elective that satisfies the Art and Humanities General Education Requirement, then the student may select an additional free elective.

⁴ Choose one course from Communication Studies 210, 240; English 295, 355, 360, 363, 364, 455, 456, 460, 463, 464; Journalism and Electronic Media 412, 414, 450, or 451.

REVISE FORESTRY MAJOR—FOREST RESOURCES MANAGEMENT CONCENTRATION**First Year**

FORS 100	3
ENGL 101*, ENGL 102*	6
MATH 125*	3
BIOL 111*, BIOL 112*	8

CHEM 100*	4
Select one: ANTH 130*, POLS 102*, PSYC 110*, PSYC 117, SOCI 110*, ~~SOCI 117*~~ , SOCI 120*	3
Elective	3

REVISE WILDLIFE AND FISHERIES SCIENCE MAJOR—WILDLIFE HEALTH CONCENTRATION

Third Year

~~WFS 304~~	~~3~~
FWF 317	3
ANSC 380	
BCMB 440, BCMB 401	7
AREC 201* or ECON 201*	4
CMST 210 or CMST 240*	3
¹ Cultures and Civilizations* or Arts and Humanities Electives*	6

Fourth Year

Select two from: WFS 433, WFS 443, WFS 444, WFS 445	6
~~WFS 401~~ , WFS 431	~~6~~ 3
BCMB 311	3
BSET 326 or GEOG 411	3
² Science Elective	3
¹ Social Sciences Elective*	3
¹ Cultures and Civilizations* or Arts and Humanities Electives*	6

DEPARTMENT OF PLANT SCIENCES

REVISE DEPARTMENT TEXT (SPECIALTY AREAS)

Microbiology

MICR 210 and above; ~~FDST 421 429~~, ~~FDST 429~~.

REVISE PLANT SCIENCES MAJOR—BIOENERGY CONCENTRATION

Third Year

AREC 212	3
BCMB 321 or ~~FORS 414~~ or ~~PLSC 348~~	3
³ Cultures and Civilizations Elective*	3
⁵ ALEC 440* or ENGL 295* or ENGL 360*	3
PLSC 452, PLSC 435	5
⁶ Technical Electives	13

Microbiology Specialty Area

MICR 210 and above; ~~FDST 421 429~~, ~~FDST 429~~.

REVISE PLANT SCIENCES MAJOR—TURFGRASS SCIENCE AND MANAGEMENT CONCENTRATION

Fourth Year

¹ Arts and Humanities Elective*	3
BIOL 250 or BCMB 321 or FORS 414 or ~~PLSC 348~~	3-4
Select from: PLSC 330, PLSC 348, PLSC 360, PLSC 370, PLSC 410*, PLSC 415, PLSC 421, PLSC 429, PLSC 430, PLSC 434, PLSC 435, PLSC 436, PLSC 437, PLSC 452, PLSC 461, PLSC 462, PLSC 469, or PLSC 494	9
PLSC 441, PLSC 457, PLSC 470	8
⁴ Technical Electives	7

COLLEGE OF ARCHITECTURE AND DESIGN

All changes effective Fall 2012

PART I. COURSE CHANGES**SCHOOL OF ARCHITECTURE****(133) (ARCH) Architecture**

ADD

370 Programming for Architectural Design (3) Programming and project pre-design processes. Use of investigative skills in documentation, research, and analysis of program, site, relevant laws, precedents, and user requirements. Formation of comprehensive program. Combination lecture, seminar, and studio format. First half semester course.

Contact Hour Distribution: 1 hour lecture, 1 hour seminar, and 1 hour studio.

(RE) Prerequisite(s): 272.

(RE) Corequisite(s): 371.

465 Directed Research (3-6) With the sponsorship of a faculty member, each student works on a specific topic or project related to that faculty member's area of expertise, research, scholarship, or creative activity.

Repeatability: May be repeated. Maximum 12 hours.

Registration Permission: By petition only, submitted by faculty sponsor (with a proposed schedule and an outline of the expected final product) to the architecture program director for approval.

479 Preparation for Self-Directed Design Project (3) Faculty oversight of student-initiated topic for critical inquiry. Related research on the student-selected topic, context, nature of inhabitation, and applicable precedents results in the synthesis of visual and textual work, including a statement of intent, program, and site for a self-directed design project in subsequent semester.

(RE) Prerequisite(s): 471.

Registration Permission: Consent of Instructor and Architecture Program Director through project approval process.

REVISE (RE) COREQUISITE

† 101 Introduction to the Built Environment (3)

(RE) Corequisite(s): 121 and 171.

Formerly: (RE) Corequisite(s): 171.

DROP (RE) PREREQUISITE, ADD (RE) COREQUISITE

171 Design Fundamentals I: Space (3)

(RE) Corequisite(s): 101 and 121.

Formerly: (RE) Prerequisite(s): 101 and 121.

121 Representation I: Drawing & Perception (2)

(RE) Corequisite(s): 101 and 171.

Formerly: (RE) Corequisite(s): 171.

DROP (RE) COREQUISITE, REVISE COMMENT

481 Architectural Design VII (3)

Comment(s): A C or better in Architecture 480 and a minimum 2.3 GPA in all design courses is required.

Formerly: (RE) Corequisite(s): 480 with grade of C or better.

Comment(s): Minimum 2.3 GPA in all design courses is required.

REVISE (RE) PREREQUISITE

482 Self-Directed Design Project (6)

(RE) Prerequisite(s): 479, 480, 481.

REVISE DESCRIPTION, REVISE REGISTRATION PERMISSION

493 Independent Study in Architecture (1-6) Student initiated, individual studies and projects under direction of faculty sponsor. Credit adjusted to complexity and level of effort required.

Registration Permission: By petition only, submitted by student to Admissions and Academic Standards Committee and architecture program director for approval.

Formerly: Individual studies and projects under faculty direction. Credit adjustment to complexity and level of effort required.

Registration Permission: Consent of architecture program director.

REVISE TITLE, REVISE DESCRIPTION, REVISE CREDIT HOURS, REVISE (RE) PREREQUISITE, ADD (RE) COREQUISITE, DROP COMMENT

371 Programming and Design (3) Execution of design project as defined in ARCH 370, exploring the implications of program on schematic design. Completed projects apply research from ARCH 370 through assessment of alternative approaches and well-reasoned design decisions. Second half semester course.

(RE) Prerequisite(s): 272.

(RE) Corequisite(s): 370.

Formerly: Architectural Design III (6) Design synthesis. Integration of design determinants emphasizing civic and cultural themes.

(RE) Prerequisite(s): 272 and 213.

Comment(s): Minimum 2.3 GPA in all design courses is required.

INTERIOR DESIGN PROGRAM

(582) (IDS) Interior Design

ADD

†IDS 107 Honors: Introduction to the Built Environment (3) (See Architecture 107.)

217 Honors: History and Theory of Interior Architecture I (3) Interior architecture, architecture, decorative arts, and furnishings within social and cultural context in a global perspective, ancient through 1900 CE. Students will attend IDS 211 classes, with supplementary assignments and/or class meetings.

218 Honors: Contemporary Issues in Interior Design and the Decorative Arts (3) Regional and global investigations of decorative art, material culture and its theory. Exploration of contemporary issues in interior design of the 20th and 21st centuries. Students will attend IDS 212 classes, with supplementary assignments and / or class meetings.

497 Honors: Independent Study in Interior Design (1-6) Individual studies and projects under faculty direction, for honors students only. Credit adjusted to complexity and level of effort required.

Repeatability: May be repeated. Maximum 12 hours.

Registration Permission: Consent of interior design program chair.

Rationale: This series of courses provides an opportunity for students to participate in an interior design honors course of study. Impact on Other Units: None. Financial Impact: None.

REVISE TITLE, REVISE DESCRIPTION, DROP (RE) PREREQUISITE

212 Contemporary Issues in Interior Design and the Decorative Arts (3) Regional and global investigations of decorative art, material culture and its theory. Exploration of contemporary issues in interior design of the 20th and 21st centuries.

Formerly: History and Theory of Interior Architecture II (3) Interior architecture, architecture, decorative arts, and furnishings within social and cultural context in global perspective from 19th through 20th century. Design as influenced by movements in the fine arts and technological advances.

(RE) Prerequisite(s): 211.

Rationale: The proposed change in the course description places equal focus of study on regional, East Tennessee, decorative arts, and global decorative arts. Students will also participate in the investigation of past and present interior design practitioners. Impact on Other Units: None. Financial Impact: None.

REVISE (RE) PREREQUISITE

433 Digital Graphics for Interior Design (3)

(RE) Prerequisite(s): 272 and Architecture 221.

Formerly: (RE) Prerequisite(s): 272 and Architecture 231.

Rationale: Course number changed last year but didn't get updated. Impact on Other Units: None. Financial Impact: None.

DROP

321 Representation IV: Advanced Computer Applications (2)

Rationale: Due to the professional need and requirement for graduates to have experience in Building Information Management applications such as REVIT it is proposed that the interior design students enroll in the current course covering the required information in School of Architecture. Impact on Other Units: None. Financial Impact: None.

PART II. PROGRAM CHANGES

REVISE COLLEGE TEXT (ADMISSION—REQUIRED PORTFOLIO)

All applicants must submit a portfolio of personally produced graphic or visual work. The purpose of the portfolio is to demonstrate visual talent and abilities **as well as to provide insight into the creative thought process of the applicant. The portfolio must contain at least three required images as follows:**

- **An instrument**
- **A visual description of 'where you live'**
- **Hand(s)**

One of each of the three required images must be executed in black ink, one in graphite, one in color. At least two of the three images must be executed freehand.

Aim for quality rather than quantity in selecting work. An ideal number would be eight to ten examples of personal work. All work shall be neatly assembled in an 8 1/2 x 11 portfolio or organized folder/notebook. Submittals not adhering to this size requirement will not be reviewed. ~~The portfolio must include at least three items.~~

- ~~A freehand drawing of a stair.~~
- ~~A freehand drawing of a collection of leaves.~~
- ~~A freehand drawing of a bicycle.~~

The following guidelines have been established to assist applicants in selecting additional samples of personal work for the portfolio.

- **Consider including** ~~Include other~~ examples of drawings, artwork, photography, or anything else ~~that which~~ may demonstrate visual **and creative** abilities. ~~Graphic, architectural or industrial design work may also be included.~~
- **Consider including** examples of creative work such as graphic design, fashion design, industrial design, furniture design **and/or other examples of creativity and invention.**
- **Consider including work from** ~~Include work for~~ course assignments (if any), as well as work completed independently.
- **Only submit** mechanically-drafted or computer-aided drawings if they are illustrative of personal design work. **Avoid** ~~extensive submissions of mechanically-drafted drawings or computer drawings, unless these are illustrative of a design project.~~
- Submission of the original item is not necessary. Inexpensively reproduced drawings, photographs, reductions, and photocopies are acceptable. Digital design work must be submitted as a hard copy (no slides or disks). **For work that does not lend itself to representation in an 8½ x 11 format, such as films, websites, or recordings, include appropriate information, such as a labeled CD.**
- Label all work with name, date, when work was executed, and media. **Indicate if it was part of course work.**

- The cover or cover page of the portfolio should include the student name **and contact information as well as address, phone number**, the program to which the application is made (Architecture or Interior Design).
- **Include a hard copy of the application to UT and personal information in the portfolio.**
- **Submit the portfolio by the published deadlines.**

The 8 1/2 x 11 portfolio should be sent with the application to the Office of Admissions.

- ~~If applying online, make a copy of application and submit it to the Office of Admissions with portfolio by November 1.~~
- ~~If applying with a paper copy, send the application to the Office of Admissions with portfolio by November 1.~~

The portfolio will be reviewed by **faculty** members of the College Admissions Committee. ~~In addition, include~~ **Include** a self-addressed stamped mailer for the return of the portfolio. Otherwise, portfolios will not be held nor returned.

SCHOOL OF ARCHITECTURE

REVISE DEPARTMENTAL TEXT (PROGRESSION)

Progression

Students must maintain an overall **2.5 2-3** grade point average by the end of 32 hours in order to maintain **good academic standing "full status"** in the program. **Students whose GPA drops below 2.5 will have one semester to raise the overall GPA to that level. Delinquent students will be put on "temporary status" for one semester. These students will have one semester to raise the overall GPA to 2-3.** If the GPA is not brought up to a **2.5 2-3**, the student will be dropped from the architecture program.

In order to graduate, students must receive a grade of C (**2.0**) or better in **each all** required professional **course courses** from the School of Architecture.

After the first year, in order to progress through the curriculum, students must:

- **receive a grade of C (2.0) or better in each professional prerequisite course**
- **maintain a 2.5 overall GPA**
- **maintain a design grade point average of 2.5**
- **complete required mathematics (in first year) and physics (in second year) with passing grades**

Students must repeat courses until the necessary standards are met (There is a limit of 3 times a student may repeat a course).

Students may advance to second year design (ARCH 271) with satisfactory completion of the first year program (including mathematics) with a grade point average of 2.3. Students may advance to third year design (ARCH 371) with the completion of all first and second year courses.

For ARCH 271 and all subsequent design courses, students must maintain a design grade point average of 2.3. Students must repeat the previous level design courses(s) until the average is raised to 2.3.

Electives on the ~~300 and 400~~ **400 and 500** level are open to all students who have the necessary prerequisites/**permissions** at any time.

Exceptions to academic policies may be made through petition, reviewed by the School's **Admissions and Academic Standards Committee**. **Students must meet required deadlines for appeal or petition as outlined in the undergraduate catalog in order to be considered for progression or prerequisite exceptions.**

REVISE DEPARTMENTAL TEXT (REPLACE OPPORTUNITIES FOR FOREIGN STUDY WITH THE FOLLOWING)

Requirements for Study Abroad/Off-Campus Study

Undergraduate students in the School of Architecture are required to participate in a school-approved study abroad or off-campus semester of study, minimum 12 credit hours including a 6 credit hour design studio. Study will typically occur in the spring of fourth-year, the fall of fifth-year, or the summers after the third or fourth years of study. As a required component of the curriculum, such study is eligible for financial aid, including the HOPE Scholarship for in-state students. Petition for exceptions will be considered.

The School of Architecture supports study abroad and off-campus experiences and believes them to be critically important in the design education process. Direct cultural exposure and experience of the spatial and materially tangible qualities of built

environments are fundamental to a more complete understanding of the various roles architecture plays in both local and global contexts.

A range of program options are available for study abroad and off-campus study offered through the College, as well as study abroad opportunities with approved programs offered by other institutions. Such programs have included the UTK programs in Krakow, Poland, Bauhaus University Weimar, Germany, the Finland Summer Architecture Institute in Helsinki, Finland, and the Nashville Civic Design Center in Tennessee. Consult the college website for current offerings.

Formerly:

Opportunities for Foreign Study

Students in their fourth year of study may elect to spend one semester studying abroad in a program organized either by the University of Tennessee, Knoxville, or by other accredited architecture programs. Since 1988, the school has had a very successful exchange agreement with the University of Krakow in Poland. In 2006, the college established a new summer semester abroad program, the Finland Summer Architecture Institute, in association with the distinguished Helsinki University of Technology's Department of Architecture.

In cooperation with the Danish Institute for Study Abroad (DIS), a program is regularly offered in Copenhagen which attracts architecture students from around the world. Students also have the opportunity to participate in the following study abroad/exchange programs: International Advanced Architectural Design Program (IAAD) at the Bauhaus University Weimar, Germany; Dessau Summer School of Architecture in Dessau, Germany; the Royal Melbourne Institute of Architecture in Melbourne, Australia, and mini term – grand tour programs open to all Architecture, Landscape Architecture and Interior Design students, listing: Sweden, Italy, Spain, Switzerland and Gulf of Finland.

During the summer, many different summer programs abroad sponsored by other architecture schools are available to UT Knoxville students for transfer credit. Students are encouraged to seek new educational experiences.

REVISE ARCHITECTURE MAJOR

Third Year

	Hours	Credit
ARCH 312		3
ARCH 331*, ARCH 332		8
ARCH 341, ARCH 342		8
~~ARCH 370~~		~~3~~
¹ ARCH 371, ARCH 372		9 12
³ Electives		3

⁵Fourth Year

ARCH 421		2
ARCH 431		3
¹ ARCH 471		6
⁴ Design Studio Option		6
³ Electives		17

⁵Fifth Year

ARCH 462		4
~~ARCH 480~~		~~3~~
~~ARCH 481~~		~~3~~
⁴ Design Studio Options (2)		12 6
³ Electives		15

* Meets [University General Education Requirement](#).

¹ Students are not allowed to enroll simultaneously in two of these design courses.

² Students are exempt from [MATH 125](#) with a score of 25- or higher on the calculus readiness test.

Students exempt from [MATH 125](#) must take a higher-level [Quantitative Reasoning elective](#) to meet the University General Education Requirement.

³ Elective distribution – Two courses from the [Social Sciences \(SS\) list](#). Two courses from the [Cultures and Civilizations \(CC\) list](#) (which includes intermediate-level foreign languages). Twelve hours of professional electives (Architecture 300-599 or Interior Design 300-499). Sixteen hours of non-architecture electives, which must include one course from the [Natural Sciences \(NS\) list](#) with a laboratory and one course from the [Communicating Orally \(OC\) list](#). Ten hours of open electives.

⁴ ~~During the fourth and fifth year, students will select a total of three courses from the following Design Studio Options – ARCH 482, ARCH 483, ARCH 485, ARCH 486, ARCH 489, or ARCH 490. One course from the following Design Studio Options – ARCH 482, ARCH 483, ARCH 485, ARCH 486, ARCH 489, or ARCH 490.~~

⁵ Students are required to participate in a school-approved study abroad or off-campus semester of study, minimum 12 credit hours including a 6 credit hour design studio. Study will typically occur in the spring of fourth-year, the fall of fifth-year, or the summers after the third or fourth years of study.

INTERIOR DESIGN PROGRAM

REVISE INTERIOR DESIGN MAJOR

First Year

	Hours	Credit
IDS 101, IDS 212 244	6	3
ARCH 101, ARCH 121, ARCH 122, ARCH 171, ARCH 172	11	14
ARCH 211* or IDS 211	3	3
ENGL 101*, ENGL 102*	6	6
ARTH 172*, ARTH 173*	3	6

Second Year

IDS 200, IDS 212, IDS 261, IDS 271, IDS 272	18	24
ARCH 212*, ARCH 221	5	2
PHYS 161*	3	3
MATH 123*	3	3
¹ Social Sciences*	3	3
² Communicating Orally*	3	3

Third Year

IDS 221, IDS 321, IDS 331, IDS 360, IDS 371, IDS 372, IDS 460*	22	24
ARCH 421	2	2
³ Natural Sciences*	4	4
⁴ Cultures and Civilizations*	3	3

Summer

IDS 420 or IDS 491	3	3
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Fourth Year

IDS 471, IDS 472 or IDS 474 or IDS 477, IDS 480	15	15
IDS 471 or IDS 474	6	6
IDS 472 or IDS 474 or IDS 477	6	6
IDS 480	3	3
⁵ Professional Electives (3, 3)	6	6
⁶ Communicating through Writing*	3	3
⁴ Cultures and Civilizations*	3	3
¹ Social Sciences*	3	3

Total 128

* Meets University General Education Requirement.

¹ See Social Sciences (SS) list – University General Education Requirement. Select two courses from the list.

² See Communicating Orally (OC) list – University General Education Requirement. Select one course from the list.

³ See Natural Sciences (NS) list – University General Education Requirement. Select one course with a lab.

⁴ See Cultures and Civilizations (CC) list – University General Education Requirement. Select two courses from the list (which includes intermediate-level foreign languages).

⁵ Any interior design courses numbered 300-499 or any architecture courses numbered 300-599 or any landscape architecture courses numbered 400-599.

⁶ See Communicating through Writing (WC) list – University General Education Requirement. Select one course from the list.

Rationale:

- Add alternative course selection (ARCH 211 or IDS 211)—The proposed change would provide an option for students to focus on either the decorative arts or architecture as part of their studies in interior design. Each course offers a rich potential for

application in the practice and study of interior design. Some students that complete the interior design program may choose to pursue a Master of Architecture or have careers that are in architecturally focused environments. This curricular option would prepare them to be competitive in the pursuit of advanced degrees in Architecture and be qualified for more career opportunities. Impact on Other Units: Addition of interior design students to current ARCH 211 course will increase School of Architecture's history course enrollment. Financial Impact: This change provides financial flexibility for the Interior Design Program by reducing the need to offer IDS 211 annually. The College of Architecture and Design is prepared to provide additional instructional assistance as appropriate for the increased enrollment.

- Add ARCH 421—Due to the professional need and requirement for graduates to have experience in REVIT, it is proposed that the ID require the existing course that the School of Architecture offers rather than duplicating existing course content. Impact on Other Units: Addition of interior design students to will increase enrollment number in ARCH 421. Financial Impact: None.
- Add ARCH 212—The theory and knowledge of architecture is essential to the practice, collaboration, and study of interior design. Topics in this course are directly applicable and essential for students in the interior design program. Impact on Other Units: Addition of interior design students to current ARCH 212 course will increase School of Architecture's history course enrollment. Financial Impact: The College of Architecture and Design is prepared to provide additional teaching assistance as appropriate for the increased enrollment.
- Drop ARTH 172—ARCH 211 History and Theory of Architecture I replaces ARTH 172. The content of ARCH 211 is currently a more appropriate/applicable knowledge base for students' course of study in the Interior Design Program. Impact on Other Units: Addition of interior design students to current ARCH 211 course will increase School of Architecture's history course enrollment. Financial Impact: None.

COLLEGE OF ARTS AND SCIENCES

All changes effective Fall 2012

PART I: COURSE CHANGES**DEPARTMENT OF ANTHROPOLOGY****(122) (ANTH) Anthropology**

REVISE PRIMARY CROSSLIST REFERENCE

†**313 Peoples and Cultures of Mesoamerica (3)** (*Same as Latin American and Caribbean Studies 313.*)

Formerly: (Same as Latin American Studies 313.)

†**316 Peoples and Cultures of South America (3)** (*Same as Latin American and Caribbean Studies 314.*)

Formerly: (Same as Latin American Studies 314.)

†**319 Caribbean Cultures and Societies (3)** (*Same as Africana Studies 319; Latin American and Caribbean Studies 319.*)

Formerly: (Same as Africana Studies 319.)

SCHOOL OF ART**(ARTA) Art Two-Dimensional Arts**

ADD COMMENT

311 Drawing III (4)

Comment(s): Total of 8 hours required for students who wish to take Art Two-Dimensional Arts 411.

REVISE COMMENT

313 Painting III (4)

Comment(s): Total of 8 hours required for students who wish to take Art Two-Dimensional Arts 413.

Formerly: *Comment(s): Total of 8 hours required for students in the two-dimensional arts concentration.*

REVISE (RE) PREREQUISITE, DROP COMMENT

411 Drawing IV (6)

(RE) Prerequisite(s): 8 hours of Art Two-Dimensional Arts 311.

Formerly: (RE) Prerequisite(s) 311.

Comment(s): Total of 12 hours required for students in the two-dimensional arts concentration.

413 Painting IV (6)

(RE) Prerequisite(s): 8 hours of Art Two-Dimensional Arts 313.

Formerly: (RE) Prerequisite(s): 313.

Comment(s): Total of 12 hours required for students in the two-dimensional arts concentration.

REVISE (RE) PREREQUISITE

431 Photography III (4)

(RE) Prerequisite(s): 331 or permission of instructor.

Formerly: (RE) Prerequisite(s): 331.

REVISE CREDIT HOURS

496 Capstone (3-6)

Formerly: ARTA 496 - Capstone (6).

(ARTB) Art Three-Dimensional Arts

REVISE CREDIT HOURS

496 Capstone (3-6)

Formerly: ARTB 496 – Capstone (6).

(ARTC) Art Four-Dimensional Arts

DROP

†433 History of Film and Modern and Contemporary Art (3)

Formerly: (Same as Cinema Studies 430.)

REVISE CROSSLIST REFERENCE, REVISE REPEATABILITY

†435 Cinematography as Art (4) (Same as Cinema Studies 435.)

Repeatability: May be repeated. Maximum 16 hours.

Formerly: (Same as Cinema Studies 431.)

Repeatability: May be repeated. Maximum 12 hours.

†436 Video Art (4) (Same as Cinema Studies 436.)

Repeatability: May be repeated. Maximum 16 hours.

Formerly: (Same as Cinema Studies 432.)

Repeatability: May be repeated. Maximum 12 hours.

REVISE CREDIT HOURS

496 Capstone (3-6)

Formerly: ARTC 496 – Capstone (6).

(ARTD) Art Design/Graphic

ADD

293 Independent Study (1-3)

Repeatability: May be repeated. Maximum 6 hours.

Registration Permission: Consent of Instructor.

ADD (RE) COREQUISITE

252 Beginning Graphic Design II (3)

(RE) Corequisite(s): 405.

DROP (RE) COREQUISITE

352 Intermediate Graphic Design II (4)

Formerly: (RE) Corequisite(s) 405.

REVISE (RE) PREREQUISITE, REVISE (RE) COREQUISITE

405 Computer Enhanced Graphic Design (3)

(RE) Prerequisite(s): 251 or permission of instructor.

(RE) Corequisite(s): 252.

Formerly: (RE) Prerequisite(s): 351 and 400.

(RE) Corequisite(s): 352.

(ARTH) Art History

ADD SECONDARY CROSSLIST

***†232 Archaeology and Art of Ancient Greece and Rome (3)** (See Classics 232.)

ADD AND CROSS LIST

†433 History of Film and Modern and Contemporary Art (3) Study of the development and interaction between the cinematic arts and the visual arts within the context of 20th- and 21st-century art history. (Same as Cinema Studies 433.)

Equivalency Table

Current Courses	Equivalent Courses Effective Fall 2012
Art Four-Dimensional Arts (ARTC)	Art History (ARTH)
433	433

ADD REGISTRATION RESTRICTION

375 Seminar in Art History I (3)

Registration Restriction(s): Art History majors and minors only or permission of instructor.

REVISE CROSSLIST REFERENCE

†431 Medieval Art of the West, 800-1400 (3) (Same as Judaic Studies 432; Medieval and Renaissance Studies 432.)

Formerly: (Same as Judaic Studies 432; Medieval Studies 432.)

†441 Northern European Painting, 1350-1600 (3) (Same as Medieval and Renaissance Studies 442.)

Formerly: (Same as Medieval Studies 442.)

†451 The Art of Italy, 1250-1450 (3) (Same as Medieval and Renaissance Studies 452.)

Formerly: (Same as Medieval Studies 452.)

(188) (BCMB) Biochemistry and Cellular and Molecular Biology

ADD AND REQUEST GEN ED DESIGNATION

***455 Scientific Communication (3)** Focus on oral communication of scientific information. Construct and effectively deliver seminar-style scientific presentations with skillful use of language and visual aids.

(RE) Corequisite(s): 452 or permission of instructor.

Satisfies General Education Requirement: (OC)

DROP

†310 Physiological Chemistry (4)

Formerly: (Same as Nutrition 310.)

DIVISION OF BIOLOGY**(190) (BIOL) Biology**

REVISE TITLE, REVISE DESCRIPTION

***101 Introduction to Biology I (4)** For non-biology majors, introduction to the principles of biology as they relate to cellular and organismal level processes. Topics include cell structure and major fundamental metabolic processes such as energy flow in biological systems, protein synthesis and aspects of genetics. Includes a survey of human anatomy and physiology with topics relating to human health.

Formerly: Humankind in the Biotic World (4) Introduction to the principles of biology from the perspective of the impacts of plants, animals, and microbes on human life, and the impact of humans on the biosphere. Intended for students not majoring in the biological or pre-health sciences. Surveys life from the cell to topics in human health. Topics include – macromolecules and cells, energy flow in biological systems, genetics and information flow from generation to generation, reproduction, biotechnology and genetic engineering, sex and sexuality, and human physiology. Laboratories involve a mix of skills-oriented exercises and assignments.

***102 Introduction to Biology II (4)** For non-biology majors, introduction to the principles of biology as they relate to biodiversity and ecological processes. Topics include a survey of evolutionary theory, an analysis of major representative organisms in the Tree of Life, and ecosystem dynamics including human impact on the environment.

Formerly: Humankind in the Biotic World (4) Introduction to the principles of biology from the perspective of the impacts of plants, animals, and microbes on human life, and the impact of humans on the biosphere. Intended for students not majoring in the biological or pre-health sciences. Focuses on the diversity of the Earth's biota and the interdependence among components. Topics include – surveys of biodiversity from bacteria to higher plants and animals, genetics and evolutionary processes, population biology, ecology, ecosystems, environmental issues including world population and global climate change. Laboratories involve a mix of skills-oriented exercises and assignments.

REVISE DESCRIPTION, REVISE CONTACT HOUR DISTRIBUTION

240 General Genetics (4) Classical and modern principles of heredity. Topics include meiosis and transmission genetics; molecular genetics and gene expression; population and evolutionary genetics. Discussion sections will emphasize problem-solving skills. Emphasis on development of analytical skills.

Contact Hour Distribution: 3 hours lecture and one 1-hour discussion.

Formerly: Classical and modern principles of heredity. Topics include meiosis and transmission genetics; molecular genetics and gene expression; population and evolutionary genetics. Laboratories will alternate with problem-solving sessions and will include both computer based simulations and hands-on experience with model genetic systems. Emphasis on development of analytical skills.

Contact Hour Distribution: 3 hours lecture and one 3-hour lab.

DEPARTMENT OF CHEMISTRY**(235) (CHEM) Chemistry**

ADD (RE) PREREQUISITE

***120 General Chemistry I (4)**

(RE) Prerequisite(s): Mathematics 119 or Math ACT score of 25 or higher, or SAT Math score of 620 or higher.

439 Advanced Inorganic Chemistry Laboratory (1)

(RE) Prerequisite(s): 369.

DROP (DE) COREQUISITE

368 Honors: Organic Chemistry II (3)

Formerly: (DE) Corequisite(s): 369.

DROP (RE) PREREQUISITE

430 Advanced Inorganic Chemistry (3)

Formerly: (RE) Prerequisite(s): 230.

DEPARTMENT OF CLASSICS**(257) (CLAS) Classics**

ADD AND CROSSLIST

†345 Greek Religion (3) An in-depth examination of religion among the Greeks and the Romans. Attention is given to cult sites, state religious calendars and ceremonies, religion in the daily lives of people, and the interplay of ancient Near Eastern and Egyptian religions with Greek and Roman religious beliefs and practices. Reading and study of primary sources in translation. Writing-emphasis course. (*Same as Religious Studies 345.*)

ADD PRIMARY CROSSLIST (TO EXISTING COURSE)

†*232 Archaeology and Art of Ancient Greece and Rome (3) Survey from the earliest human presence in the Mediterranean to the end of the Roman Empire (c. 200,000 BCE—476 CE). For prehistoric times, emphasis on material remains and anthropological theory used to recreate the cultures of the Minoans, Mycenaeans, Dark Age Greeks, and Etruscans. For the historical Greek and Roman periods, emphasis on developments in architecture, sculpture, vase painting, wall painting, mosaics, and minor arts. Relationship of art to society. Writing-emphasis course. (*Same as Art History 232.*)

DEPARTMENT OF EARTH AND PLANETARY SCIENCES**(424) (GEOL) Geology**

ADD

466 Water and Air Pollution (3) This course focuses on the impacts of human activities on the water and atmospheric cycles. Emphasis is on field and lab activities to learn methods of measuring pollution. Topics include: industrial pollution, sewage contamination, heavy metals and some biological impacts.

Recommended Background: 1 lab course in Geology and 1 lab course in Chemistry.

ADD PRIMARY CROSSLIST (TO EXISTING COURSE), REVISE RECOMMENDED BACKGROUND

†459 Introduction to Oceanography (3) Principles of oceanography, including physical, chemical, geological, and biological processes and patterns. Emphasis on the physical, chemical, and geologic structure of the oceans and their role in oceanic circulation, global climate change, and the biogeochemical evolution of the oceans through geologic time. (*Same as Microbiology 459.*)

Recommended Background: Introductory geology or introductory biology or consent of instructor.

Formerly: Recommended Background: Introductory geology or consent of instructor.

DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY**(278) (EEB) Ecology and Evolutionary Biology**

DROP (RE) PREREQUISITE, ADD RECOMMENDED BACKGROUND

474 Ichthyology (4)

Recommended Background: Biology 250.

Formerly: (RE) Prerequisite(s): Biology 250.

484 Conservation Biology (3)

Recommended Background: Biology 250.

Formerly: (RE) Prerequisite(s) Biology 240 and 250.

DEPARTMENT OF ENGLISH**(339) (ENGL) English**

ADD

339 Children's Literature (3) Study of works for and about children, including fairy tales, adventure stories and film adaptations.
(RE) Prerequisite(s): 102 or 118.

REVISE DESCRIPTION, REVISE CREDIT RESTRICTION, REVISE (RE) COREQUISITE

103 Writing Workshop I (1) Self-paced Writing Center tutorial for students wanting additional instruction while enrolled in English 101, 131, or having ACT English and composite scores at or below 18 (or SAT verbal/composite scores at or below 450/850). Individual instruction in mechanics, paragraph development, and essay structure.
Credit Restriction: To receive credit, students must participate at least two hours per week and must also pass the 101 or 131 class in which they are currently enrolled.
(RE) Corequisite(s): 101 or 131.

Formerly: Self-paced Writing Center tutorial for students wanting additional instruction while enrolled in English 101 or having ACT English and composite scores at or below 18 (or SAT verbal/composite scores at or below 450/850). Individual instruction in mechanics, paragraph development, and essay structure.

Credit Restriction: To receive credit, students must participate at least two hours per week and must also pass the 101 class in which they are currently enrolled.

(RE) Corequisite(s): 101.

104 Writing Workshop II (1) Self-paced Writing Center tutorial for students wanting additional instruction while enrolled in English 102, 118, or 132, or students advised to enroll by their 102, 118, or 132 instructors. Individual instruction in critical reading and in developing and documenting the research paper.

Credit Restriction: To receive credit, students must participate at least two hours per week and must also pass the 102, 118, or 132 class in which they are currently enrolled.

(RE) Corequisite(s): 102, 118, or 132.

Formerly: Self-paced Writing Center tutorial for students wanting additional instruction while enrolled in English 102 or 118 or students advised to enroll by their 102 or 118 instructors. Individual instruction in critical reading and in developing and documenting the research paper.

Credit Restriction: To receive credit, students must participate at least two hours per week and must also pass the 102 or 118 class in which they are currently enrolled.

(RE) Corequisite(s): 102 or 118.

REVISE DESCRIPTION, REQUEST GEN ED DESIGNATION

***131 Composition for Non-Native Speakers of English I (3)** Intensive instruction in writing, focusing on analysis and argument. Strategies for developing substantive arguments through systematic revision, addressing specific audiences, integrating sources, and expressing ideas with clarity and correctness. Individual conferences.

Satisfies General Education Requirement: (WC)

Formerly: Composition for Non-Native Speakers of English I (3) Paragraph and composition organization and development with emphasis on informative and persuasive writing. Includes grammar and mechanics. Individual conferences.

REVISE DESCRIPTION, REVISE (RE) PREREQUISITE, REQUEST GEN ED DESIGNATION

***132 Composition for Non-Native Speakers of English II (3)** Advancing concepts introduced in English 131 or 101. Intensive writing instruction focused on inquiry and research. Strategies for formulating and investigating questions, locating and evaluating information, using varied sources and research methods, developing positions on intercultural and interdisciplinary issues from diverse texts (print, digital, and multimedia), and presenting research using appropriate rhetorical conventions. Individual conferences.

Satisfies General Education Requirement: (WC)

(RE) Prerequisite(s): 131, 101, or equivalent.

Formerly: Writing based on reading and discussion. Analysis of works of literature. Emphasis on research techniques and writing research papers. Individual Conferences.

(RE) Prerequisite(s): 101 or 131.

REQUEST GEN ED DESIGNATION

***118 Honors: English Composition**

Satisfies General Education Requirement: (WC)

ADD REPEATABILITY

***398 Junior-Senior Honors Seminar (3)**

Repeatability: May be repeated with consent of department. Maximum 6 hours.

REVISE CROSSLIST REFERENCE

†401 Medieval Literature (3) *(Same as Medieval and Renaissance Studies 405.)*

Formerly: (Same as Medieval Studies 405.)

†402 Chaucer (3) *(Same as Medieval and Renaissance Studies 406.)*

Formerly: (Same as Medieval Studies 406.)

DEPARTMENT OF GEOGRAPHY**(415) (GEOG) Geography**

ADD AND REQUEST GEN ED DESIGNATION

***201 Concepts in Human Geography (3)** Introduction to key topics and core concepts in human geography. Human activities, their organization, and their impacts on the landscape.

Satisfies General Education Requirement: (SS)

343 Geography of Human Rights (3) Human rights and social justice issues around the world. Special consideration of Africa and the African diaspora.

344 Population Geography (3) Overview of population issues around the world. Regional fertility and mortality, disease, international migration, refugees and internal displacement.

DROP

***102 World Geography (3)**

108 Honors: World Geography (4)

REVISE DESCRIPTION, DROP COMMENT

***101 World Geography (3)** Survey of world regions and regional issues. Illustrates geographical points of view, concepts, and techniques.

Formerly: Selected topics and world regions, especially those of contemporary interest. Illustrates geographical points of view, concepts, and techniques.

Comment(s): 101 and 102 do not have to be taken in sequence.

REVISE TITLE, REVISE DESCRIPTION

345 People and Environment (3) Global and local patterns of human use of the environment. Geographical variations in demographic, cultural, economic, and technological aspects of environmental stewardship. Writing-emphasis course.

Formerly: Population and Environment (3) Global and local patterns of population distribution and change as they relate to culture, economic development, technology, the environment, and the future. Writing-emphasis course.

REVISE CROSSLIST REFERENCE

†373 Geography of South America (3) *(Same as Latin American and Caribbean Studies 373.)*

Formerly: (Same as Latin American Studies 373.)

REVISE DESCRIPTION

435 Biogeography (3) Study of the changing distribution patterns of plants and animals on a variety of spatial and temporal scales. The effects of plate tectonics, climate change, and human activity on world biota.

Formerly: Study of the changing distribution patterns of plants and animals on a variety of spatial and temporal scales. The effects plate tectonics, Pleistocene climatic change, and human activity have on world biota.

DROP COMMENT, DROP REGISTRATION RESTRICTION

499 Proseminar in Geography (3) Major themes in geography, especially trends over the past 40 years. A required course for geography majors.

Formerly: *Comment(s): To enroll, students must have completed 12 hours in geography.*

Registration Restriction(s): Minimum student level – senior.

DEPARTMENT OF HISTORY

(462) (HIST) History

ADD

365 U.S. Economic History to 1865 (3) The growth and development of the U.S. economy from colonial times through the end of the Civil War. Topics include regional variations in economic development; the emergence of a liberal capitalist economic order; the economic significance of new systems of production, transportation, banking, and communication; and the impact of economic fluctuations. Writing-emphasis course.

386 Topics in Atlantic World History, 1492-1850 (3) The integration of the peoples and regions around the Atlantic Ocean. Topics include New World settlement, slavery, imperial expansion, and imperial decline. Ocean-centered focus on the historical processes responsible for connecting Europe, Africa, North and South America through the flow of peoples, goods, and ideas. Writing-emphasis course.

Repeatability: May be repeated. Maximum 9 hours.

466 Studies in Ancient History (3) Aspects of ancient Near East and Mediterranean history. Topics vary.

Repeatability: May be repeated. Maximum 9 hours.

REVISE TITLE, REVISE DESCRIPTION, REVISE CROSSLIST REFERENCE

†*255 Introduction to Latin American and Caribbean Studies (3) Societies of Latin America and the Caribbean with special emphasis on dominant culture patterns, social changes, and impact of nationalism. Pre-colonial and colonial periods through independence era. Writing-emphasis course. (*Same as Latin American and Caribbean Studies 251.*)

Formerly: Introduction to Latin American Studies (3) Societies of Latin America with special emphasis on dominant culture patterns, social changes, and impact of nationalism. Pre-colonial and colonial periods through independence era. Writing-emphasis course. (*Same as Latin American Studies 251.*)

†*256 Introduction to Latin American and Caribbean Studies (3) Societies of Latin America and the Caribbean with special emphasis on dominant culture patterns, social changes, and impact of nationalism. Latter 19th century and the modern period. Writing-emphasis course. (*Same as Latin American and Caribbean Studies 252.*)

Formerly: Introduction to Latin American Studies (3) Societies of Latin America with special emphasis on dominant culture patterns, social changes, and impact of nationalism. Latter 19th century and the modern period. Writing-emphasis course. (*Same as Latin American Studies 252.*)

REVISE CROSSLIST REFERENCE

†312 Medieval History (3) (*Same as Medieval and Renaissance Studies 312.*)

Formerly: (*Same as Medieval Studies 312.*)

†313 Medieval History (3) (*Same as Medieval and Renaissance Studies 313.*)

Formerly: (*Same as Medieval Studies 312.*)

†343 History of Mexico (3) *(Same as Latin American and Caribbean Studies 343.)*

Formerly: (Same as Latin American Studies 343.)

†344 History of Brazil (3) *(Same as Latin American and Caribbean Studies 344.)*

Formerly: (Same as Latin American Studies 344.)

†360 History of Early Latin America to 1824 (3) *(Same as Latin American and Caribbean Studies 360.)*

Formerly: (Same as Latin American Studies 360.)

†361 History of Modern Latin America since 1810 (3) *(Same as Latin American and Caribbean Studies 361.)*

Formerly: (Same as Latin American Studies 361.)

†464 The Spanish Conquest (3) *(Same as Latin American and Caribbean Studies 464.)*

Formerly: (Same as Latin American Studies 464.)

†465 Gender and Sexuality in Early Latin America (3) *(Same as Latin American and Caribbean Studies 466.)*

Formerly: (Same as Latin American Studies 466.)

†475 Studies in Latin American History (3) *(Same as Latin American and Caribbean Studies 475.)*

Formerly: (Same as Latin American Studies 475.)

INTERDISCIPLINARY PROGRAMS**(581) (INPG) Interdisciplinary Programs**

REVISE DESCRIPTION

385 VolsTeach: Research Methods in Science (3) Inquiry-based teaching methods in science. Students perform independent inquiries and learn to combine skills from mathematics and science to solve research problems. A component of the VolsTeach curriculum. By petition, may be applied towards the B.S. in Biological Sciences (BCMB, EEB, and Microbiology concentrations).

Formerly: Inquiry-based teaching methods in science. Students perform independent inquiries and learn to combine skills from mathematics and science to solve research problems. A component of the VolsTeach curriculum.

(028) (AFST) Africana Studies

DROP

†385 Race, Class, and Health (3) *(See Sociology 385.)*

REVISE TITLE

†310 Music and the African Diaspora (3) *(See Musicology 310.)*

Formerly: Introduction to African-American Music

(099) (AMST) American Studies

ADD SECONDARY CROSSLIST

†354 Religion and Popular Culture in the United States (3) *(See Religious Studies 354.)***(251) (CNST) Cinema Studies**

ADD SECONDARY CROSSLIST

†235 Introduction to Cinematography as Art (3) *(See Art Four Dimensional Arts 235.)*

- †236 Introduction to Video Art (3) *(See Art Four Dimensional Arts 236.)*
 †433 History of Film and Modern and Contemporary Art (3) *(See Art History 433.)*
 †435 Cinematography as Art (4) *(See Art Four Dimensional Arts 435.)*
 †436 Video Art (4) *(See Art Four Dimensional Arts 436.)*

DROP

- †233 Introduction to Cinematography as Art (3)
 †234 Introduction to Video Art (3)
 †430 History of Film and Modern Art (3)
 †431 Cinematography as Art (4)
 †432 Video Art (4)

Equivalency Table

Current Courses Cinema Studies (CNST)	Equivalent Courses Effective Fall 2012 Cinema Studies (CNST)
233	235
234	236
430	433
431	435
432	436

(600) (LAMS) Latin American Studies

DROP ACADEMIC DISCIPLINE AND ALL COURSES

- †*251 Introduction to Latin American Studies (3)
 †*252 Introduction to Latin American Studies (3)
 †301 Cultural Readings in Portuguese (3)
 †303 Highlights of Brazilian Civilization (3)
 †313 Peoples and Cultures of Mesoamerica (3)
 †314 Peoples and Cultures of South America (3)
 †315 Aspects of Luso-Brazilian Literature (3)
 †319 Caribbean Cultures and Societies (3)
 †326 Brazilian Cinema (3)
 †331 Introduction to Hispanic Culture (3)
 †333 Survey of Spanish-American Literature: 1700 to Present (3)
 †334 Survey of Hispanic Literatures: Beginnings-1700 (3)
 †343 History of Mexico (3)
 †344 History of Brazil (3)
 †360 History of Early Latin America to 1824 (3)
 †361 History of Modern Latin America since 1810 (3)
 †373 Geography of South America (3)
 †401 Cultural Plurality and Institutional Changes in Latin America (3)
 †402 Latin American Studies Seminar (3)
 †430 Contemporary Brazilian Studies (3)
 †432 Special Topics in Literature and Culture of the Portuguese-speaking World (3)
 †456 Latin American Government and Politics (3)
 †464 The Spanish Conquest (3)
 †465 Latin American Film and Culture (3)

†466 Gender and Sexuality in Early Latin America (3)

†475 Studies in Latin American History (3)

†479 Disenchanted Texts in Hispanic Literature (3)

491 Foreign Study (1-15)

492 Off-Campus Study (1-15)

493 Independent Study (1-15)

(LAC) Latin American and Caribbean Studies

ADD ACADEMIC DISCIPLINE AND COURSES

†*251 Introduction to Latin American and Caribbean Studies (3) *(See History 255.)*

†*252 Introduction to Latin American and Caribbean Studies (3) *(See History 256.)*

†301 Cultural Readings in Portuguese (3) *(See Portuguese 301.)*

†303 Highlights of Brazilian Civilization (3) *(See Portuguese 303.)*

†313 Peoples and Cultures of Mesoamerica (3) *(See Anthropology 313.)*

†314 Peoples and Cultures of South America (3) *(See Anthropology 316.)*

†315 Aspects of Luso-Brazilian Literature (3) *(See Portuguese 315.)*

†319 Caribbean Cultures and Societies (3) *(See Anthropology 319.)*

†326 Brazilian Cinema (3) *(See Portuguese 326.)*

†331 Introduction to Hispanic Culture (3) *(See Spanish 331.)*

†333 Survey of Spanish-American Literature: 1700 to Present (3) *(See Spanish 333.)*

†334 Survey of Hispanic Literatures: Beginnings-1700 (3) *(See Spanish 334.)*

†343 History of Mexico (3) *(See History 343.)*

†344 History of Brazil (3) *(See History 344.)*

†360 History of Early Latin America to 1824 (3) *(See History 360.)*

†361 History of Modern Latin America since 1810 (3) *(See History 361.)*

†373 Geography of South America (3) *(See Geography 373.)*

†401 Cultural Plurality and Institutional Changes in Latin America (3) *(See Spanish 401.)*

†402 Latin American Studies Seminar (3) *(See Spanish 402.)*

†430 Contemporary Brazilian Studies (3) *(See Portuguese 430.)*

†432 Special Topics in Literature and Culture of the Portuguese-speaking World (3) *(See Portuguese 432.)*

†456 Latin American Government and Politics (3) *(See Political Science 456.)*

†464 The Spanish Conquest (3) *(See History 464.)*

†465 Latin American Film and Culture (3) *(See Spanish 465.)*

†466 Gender and Sexuality in Early Latin America (3) *(See History 465.)*

†475 Studies in Latin American History (3) *(See History 475.)*

†479 Disenchanted Texts in Hispanic Literature (3) *(See Spanish 479.)*

491 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

492 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

493 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

Equivalency Table

Current Courses Latin American Studies (LAMS)	Equivalent Courses Effective Fall 2012 Latin American and Caribbean Studies (LAC)
251	251
252	252
301	301
303	303
313	313
314	314
315	315
319	319
326	326
331	331
333	333
334	334
343	343
344	344
360	360
361	361
373	373
401	401
402	402
430	430
432	432
456	456
464	464
465	465
466	466
475	475
479	479
491	491
492	492
493	493

(674) (MDST) Medieval Studies

DROP ACADEMIC DISCIPLINE AND ALL COURSES

*201 Medieval Civilization

*202 Medieval Civilization

261 Medieval Culture: Readings from the Early Middle Ages, 500-1000

262 Medieval Culture: Readings from the Later Middle Ages, 1000-1500

†312 Medieval History

†313 Medieval History

†*322 Medieval Philosophy

†401 Dante and Medieval Culture

†402 Petrarch and Boccaccio

403 Seminar in Medieval Studies

†405 Medieval Literature

†406 Chaucer

†410 Topics in Medieval/Early Modern French Literature

†432 Medieval Art of the West, 800-1400

†442 Northern European Painting, 1350-1600

†452 The Art of Italy, 1250-1450

†475 Ancient and Medieval Political Thought

491 Foreign Study
492 Off-Campus Study
493 Independent Study

(MRST) Medieval and Renaissance Studies

ADD ACADEMIC DISCIPLINE AND COURSES

***201 Medieval Civilization I (3)** Introduction to basic themes in the medieval experience approached from interdisciplinary points of view and including philosophy and religion, art and architecture, language and literature, and social and political history. Writing-emphasis course.

Satisfies General Education Requirement: (CC)

***202 Medieval Civilization II (3)** Introduction to basic themes in the medieval experience approached from interdisciplinary points of view and including philosophy and religion, art and architecture, language and literature, and social and political history. Writing-emphasis course.

Satisfies General Education Requirement: (CC)

261 Medieval Culture: Readings from the Early Middle Ages, 500-1000 (3) Critical analysis and interpretation of selected works from the early medieval period. Focuses on major types of literature produced during the period 500-1000 AD, e.g., cultural, religious, rhetorical, lyric, epic, biographical. Includes Augustine's Confessions, Boethius' Consolation, St. Gregory's Life of St. Benedict, The Life of Charlemagne, etc. Writing-emphasis course.

262 Medieval Culture: Readings from the Later Middle Ages, 1000-1500 (3) Critical analysis and interpretation of selected works from the later medieval period. Focuses on romantic, allegorical, and mystical writings from the high and later Middle Ages, e.g., the Song of the Nibelungen, the Romance of the Rose, St. Bernard's Commentary on the Song of Songs, Peter Abelard's History of My Calamities. Writing-emphasis course.

(RE) Prerequisite(s): 261.

†312 Medieval History (3) *(See History 312.)*

†313 Medieval History (3) *(See History 313.)*

†*322 Medieval Philosophy (3) *(See Philosophy 322.)*

†401 Dante and Medieval Culture (3) *(See Italian 401.)*

†402 Petrarch and Boccaccio (3) *(See Italian 402.)*

403 Seminar in Medieval and Renaissance Studies (3) Interdisciplinary treatment of selected topics. Content varies. Writing-emphasis course.

Repeatability: May be repeated. Maximum 6 hours.

†405 Medieval Literature (3) *(See English 401.)*

†406 Chaucer (3) *(See English 402.)*

†410 Topics in Medieval/Early Modern French Literature (3) *(See French 410.)*

†432 Medieval Art of the West, 800-1400 (3) *(See Art History 431.)*

†442 Northern European Painting, 1350-1600 (3) *(See Art History 441.)*

†452 The Art of Italy, 1250-1450 (3) *(See Art History 451.)*

†475 Ancient and Medieval Political Thought (3) *(See Political Science 475.)*

491 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

492 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

493 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

Equivalency Table

Current Courses Medieval Studies (MDST)	Equivalent Courses Effective Fall 2012 Medieval & Renaissance Studies (MRST)
201	201
202	202
261	261
262	262
312	312
313	313
322	322
401	401
402	402
403	403
405	405
406	406
410	410
432	432
442	442
452	452
475	475
491	491
492	492
493	493

DEPARTMENT OF MATHEMATICS**(641) (MATH) Mathematics**

DROP (DE) PREREQUISITE

421 Combinatorics (3)

Formerly: (DE) Prerequisite(s): 323.

DEPARTMENT OF MICROBIOLOGY**(684) (MICR) Microbiology**

ADD SECONDARY CROSSLIST

†421 Food Microbiology (3) (See Food Science and Technology 421.)

†459 Introduction to Oceanography (3) (See Geology 459.)

DEPARTMENT OF MODERN FOREIGN LANGUAGES AND LITERATURES**(405) (FREN) French**

REVISE CROSSLIST REFERENCE

†410 Topics in Medieval/Early Modern French Literature (3) (Same as Medieval and Renaissance Studies 410.)

Formerly: (Same as Medieval Studies 410.)

(584) (ITAL) Italian

ADD

405 Topics in Italian Culture, History, and Literature (3) Comprehensive view and critical analysis of themes related to Italian culture. Taught in Italian. Topics vary by semester. Writing Emphasis Course.

Repeatability: May be repeated. Maximum 6 hours.

Rationale: We need more 400 level courses to give our majors and minors a wider variety of courses to choose from and thus allow them to graduate in a more timely fashion. Impact on other units: No impact. Financial impact: No impact.

DROP

311 History of Italian Literature (3)

REVISE CROSSLIST REFERENCE

†**401 Dante and Medieval Culture (3)** (*Same as Medieval and Renaissance Studies 401.*)

Formerly: (Same as Medieval Studies 401.)

†**402 Petrarch and Boccaccio (3)** (*Same as Medieval and Renaissance Studies 402.*)

Formerly: (Same as Medieval Studies 402.)

(811) (PORT) Portuguese

REVISE CROSSLIST REFERENCE

†**301 Cultural Readings in Portuguese (3)** (*Same as Latin American and Caribbean Studies 301.*)

Formerly: (Same as Latin American Studies 301.)

†**303 Highlights of Brazilian Civilization (3)** (*Same as Latin American and Caribbean Studies 303.*)

Formerly: (Same as Latin American Studies 303.)

†**315 Aspects of Luso-Brazilian Literature (3)** (*Same as Latin American and Caribbean Studies 315.*)

Formerly: (Same as Latin American Studies 315.)

†**326 Brazilian Cinema (3)** (*Same as Cinema Studies 326; Latin American and Caribbean Studies 326.*)

Formerly: (Same as Cinema Studies 326; Latin American Studies 326.)

†**430 Contemporary Brazilian Studies (3)** (*Same as Latin American and Caribbean Studies 430.*)

Formerly: (Same as Latin American Studies 430.)

†**432 Topics in the Literature and Culture of the Portuguese-speaking World (3)** (*Same as Latin American and Caribbean Studies 432.*)

Formerly: (Same as Latin American Studies 432.)

(924) (SPAN) Spanish

REVISE CROSSLIST REFERENCE

†**331 Introduction to Hispanic Culture (3)** (*Same as Latin American and Caribbean Studies 331.*)

Formerly: (Same as Latin American Studies 331.)

†**333 Survey of Spanish-American Literature: 1700-Present (3)** (*Same as Latin American and Caribbean Studies 333.*)

Formerly: (Same as Latin American Studies 333.)

†**334 Survey of Hispanic Literatures: Beginnings-1700 (3)** (*Same as Latin American and Caribbean Studies 334.*)

Formerly: (Same as Latin American Studies 334.)

†401 Cultural Plurality and Institutional Changes in Latin America (3) *(Same as Latin American and Caribbean Studies 401.)*

Formerly: (Same as Latin American Studies 401.)

†402 Latin American Studies Seminar (3) *(Same as Latin American and Caribbean Studies 402.)*

Formerly: (Same as Latin American Studies 402.)

†465 Latin American Film and Culture (3) *(Same as Cinema Studies 465; Latin American and Caribbean Studies 465.)*

Formerly: (Same as Cinema Studies 465; Latin American Studies 465.)

†479 Disenchanted Texts in Hispanic Literature (3) *(Same as Latin American and Caribbean Studies 479.)*

Formerly: (Same as Latin American Studies 479.)

SCHOOL OF MUSIC**(706) (MUCO) Musicology**

REVISE TITLE, REVISE DESCRIPTION

†310 Music and the African Diaspora (3) Introduces music and related cultural expressions of the African diaspora connecting Africa, the Americas (especially North America) and Europe. Introduces interdisciplinary social theories, evaluates critical debates, and explores several case studies of African and African American music and performance. *(Same as Africana Studies 310.)*Formerly: Introduction to African-American Music (3) History of African music, blues, gospel music, and jazz with emphasis on black artists and their contributions. *(Same as Africana Studies 310.)***(711) (MUJZ) Music Jazz**

REVISE (RE) PREREQUISITE

310 Jazz Composition and Arranging (2)*(RE) Prerequisite(s): 120 and 130.*

Formerly: (RE) Prerequisite(s): 120.

320 Jazz Band Arranging (2)*(RE) Prerequisite(s): 130 and Music Technology 340.*

Formerly: Music Technology 340.

(713) (MUPF) Music Performance

DROP REGISTRATION RESTRICTION

180 Piano (1-3)

Formerly: Registration Restriction(s): Bachelor of Music or Bachelor of Arts – music major or music minor.

181 Piano (1-3)

Formerly: Registration Restriction(s): Bachelor of Music or Bachelor of Arts – music major or music minor.

280 Piano (1-3)

Formerly: Registration Restriction(s): Bachelor of Music or Bachelor of Arts – music major or music minor.

281 Piano (1-3)

Formerly: Registration Restriction(s): Bachelor of Music or Bachelor of Arts – music major or music minor.

380 Piano (1-3)

Formerly: Registration Restriction(s): Bachelor of Music or Bachelor of Arts – music major or music minor.

381 Piano (1-3)

Formerly: Registration Restriction(s): Bachelor of Music or Bachelor of Arts – music major or music minor.

480 Piano (1-3)

Formerly: Registration Restriction(s): Bachelor of Music or Bachelor of Arts – music major or music minor.

481 Piano (1-3)

Formerly: Registration Restriction(s): Bachelor of Music or Bachelor of Arts – music major or music minor.

(714) (MUTH) Music Theory

REVISE CREDIT HOURS, REVISE DESCRIPTION, REVISE REPEATABILITY

101 Theory Workshop (0) Tutoring for students needing additional help in theory classes.

Repeatability: May be repeated. Maximum 10 times.

Formerly: Self-paced music tutorial for students needing additional help in theory classes.

Repeatability: May be repeated. Maximum 10 hours.

(715) (MUVC) Music Voice

ADD

220 Acting for Singers (1) Rudiments of acting applied to a wide variety of styles from solo and ensemble literature for the lyric theater. Topics include physical awareness, improvisation, focus, gesture, dramatic and musical analysis, and styles of presentation (auditions and concerts).

Registration Permission: Consent of instructor.

Repeatability: May be repeated. Maximum 4 times.

DEPARTMENT OF PHILOSOPHY

(745) (PHIL) Philosophy

ADD

235 Formal Logic (3) Introduction to formal deductive systems – propositional and predicate logic.

DROP

135 Formal Logic (3)

Equivalency Table

Current Course Philosophy (PHIL)	Equivalent Course Effective Fall 2012 Philosophy (PHIL)
135	235

REVISE CROSSLIST REFERENCE

†*322 Medieval Philosophy (3) *(Same as Judaic Studies 322; Medieval and Renaissance Studies 322.)*

Formerly: (Same as Judaic Studies 322; Medieval Studies 322.)

REVISE (RE) PREREQUISITE

435 Intermediate Formal Logic (3)

(RE) Prerequisite(s): 235.

Formerly: (RE) Prerequisite(s): 135.

DEPARTMENT OF PHYSICS AND ASTRONOMY

(773) (PHYS) Physics

ADD

405 Science, Technology, and Public Policy (3) The United States faces challenges which include climate change, energy independence, human genomics, nanotechnology, and modified food crops. The process by which public policy decisions are made, currently and historically, in the federal government is examined with an eye to the role scientists, advocacy groups, industry, researchers, national laboratories and individual citizens play in setting public policy. The role played by political values in setting the research agenda is explored.

Registration Restriction: Minimum student level— junior.

DROP REGISTRATION RESTRICTION, DROP REGISTRATION PERMISSION

401 A Survey of Physics (3)

Formerly: Registration Restriction(s): Physics major: minimum student level – senior.

Registration Permission: Consent of instructor.

(150) (ASTR) Astronomy

ADD

153 Astronomy 151 Laboratory (1) Principles for interpretation of astronomical observations are reinforced in laboratory. Must be taken concurrently with Astronomy 151. Astronomy 151 and Astronomy 153 together are equivalent to Astronomy 161.

(RE) Corequisite(s): 151.

Credit Restriction(s): Students may not receive credit for both Astronomy 153 and 161.

154 Astronomy 152 Laboratory (1) Principles for interpretation of astronomical observations are reinforced in laboratory. Must be taken concurrently with Astronomy 152. Astronomy 152 and Astronomy 154 together are equivalent to Astronomy 162.

(RE) Corequisite(s): 152.

Credit Restriction(s): Students may not receive credit for both Astronomy 154 and 162.

DROP

***161 A Journey through the Solar System with Laboratory**

***162 Stars, Galaxies, and Cosmology with Laboratory**

Equivalency Table

Current Courses Astronomy (ASTR)	Equivalent Courses Effective Fall 2012 Astronomy (ASTR)
161	151
	153
162	152
	154

DEPARTMENT OF POLITICAL SCIENCE**(801) (POLS) Political Science**

ADD

422 Political Campaigns and Elections (3) Nature of campaigns and elections in the American political process.

472 Conflict Processes (3) Analysis and exploration of the causes and consequences of violent political conflict.

479 Regional Analysis of International Politics (3) Analysis and exploration of international relations and foreign policy issues in specific regional contexts.

DROP

387 Junior Honors Seminar (3)

388 Junior Honors Seminar (3)

ADD

349 Introduction to Comparative Politics (3) Fundamentals of comparative political inquiry, including what comparative politics constitutes, how comparative study of political systems is done, and major issues in comparative politics.

DROP

364 Introduction to Comparative Politics (3)

Equivalency Table

Current Courses	Equivalent Courses Effective Fall 2012
Political Science (POLS)	Political Science (POLS)
364	349

ADD

453 Western European Politics (3) Political culture patterns and institutions of western democratic systems. Writing-emphasis course.

DROP

361 Politics in Western Democracies (3)

Equivalency Table

Current Courses	Equivalent Courses Effective Fall 2012
Political Science (POLS)	Political Science (POLS)
361	453

REVISE TITLE

401 Research Methods (3)

Formerly: Political Analysis

REVISE TITLE, REVISE DESCRIPTION

459 Government and Politics of Post-Communist Countries (3) Political systems, processes, government structures and policy issues in post-Communist countries. Writing-emphasis course.

Formerly: Government and Politics of Russia and Eastern Europe (3) System transformation, political processes, and government structure in Russia and Eastern European countries. Writing-emphasis course.

461 Comparative Public Policy (3) Comparative analysis of public policies in advanced industrial democracies. Writing-emphasis course.

Formerly: Policymaking in Democracies (3) Comparative approach to theory and process of making public policies. Writing-emphasis course.

REVISE CROSSLIST REFERENCE

†456 Latin American Government and Politics (3) *(Same as Latin American and Caribbean Studies 456.)*

Formerly: (Same as Latin American Studies 456.)

†475 **Ancient and Medieval Political Thought (3)** (*Same as Medieval and Renaissance Studies 475.*)

Formerly: (Same as Medieval Studies 475.)

DEPARTMENT OF PSYCHOLOGY

(830) (PSYC) Psychology

ADD

433 Theories of Counseling Psychology (3) Traditional and contemporary theoretical conceptualizations and strategies in counseling psychology practice.

(RE) *Prerequisite(s): 110 or 117 or consent of instructor*

436 Positive Psychology (3) Theories and research about subjective well-being, neuropsychological correlates of positive emotions, and practical application of psychological resources such as optimism, resilience, and mindfulness.

(RE) *Prerequisite(s): 110 or 117 or consent of instructor*

464 Drugs and Behavior (3) A review of the behavioral and neurobiological actions of all major psychoactive drugs, focusing on how drugs alter behavior by influencing brain mechanisms.

(RE) *Prerequisite(s): 110 or 117 or consent of instructor*

DEPARTMENT OF RELIGIOUS STUDIES

(863) (REST) Religious Studies

ADD

423 Seminar in Early Christianity (3) A thematic study of early Christianity from the second to the seventh century. Themes will vary. Writing-emphasis course.

Repeatability: May be repeated. Maximum 6 hours.

ADD AND CROSSLIST

†354 **Religion and Popular Culture in the United States (3)** Theoretical and historical reflection on how the rise of commercialized mass media affects ideas and practices of religion. Focus on critical skills for interpreting religion in this context using case studies drawn from film, television, music, and internet-based culture. Writing-emphasis course. (*Same as American Studies 354.*)

ADD SECONDARY CROSSLIST

†345 **Greek Religion (3)** (*See Classics 345.*)

ADD

375 Theravada Buddhism (3) Historical study of the Theravada Buddhist tradition in South and Southeast Asia. Focus will be on the cult of the Buddha in Theravada Buddhism, the Theravada interpretation of key Buddhist concepts as found in the Pali canon, and the reciprocal relationship between renunciants and lay persons in the tradition. Writing-emphasis course.

DROP

378 Theravada Buddhism (3)

Equivalency Table

Current Courses Religious Studies (REST)	Equivalent Courses Effective Fall 2012 Religious Studies (REST)
378	375

DROP

301 Religious Myth, Symbol, and Ritual (3)

313 Religious Aspects of Modern Literature (3)

REVISE TITLE, REVISE DESCRIPTION

†312 Introduction to Early Judaism (3) Study of biblical and classical Jewish material, including ways in which western literary traditions have appropriated and recast biblical and classical heritage. Writing-emphasis course. (*Same as Judaic Studies 312.*)
Formerly: Religious Aspects of Biblical and Classical Literature (3) Ways in which contemporary modes of literary study enhance appreciation of biblical and classical material. Ways in which the western literary tradition has appropriated and recast the biblical and classical heritage. Writing-emphasis course. (*Same as Judaic Studies 312.*)

†353 Religion, Race, and Ethnicity in North America (3) Selected people, themes, movements, or problems touching on how religion in North America has been shaped by racial and ethnic diversity and conflict. Focus on African-Americans and their relation to others such as Native Americans, Latino/as, and Asian-Americans. Variable Content. Writing-emphasis course. (*Same as Africana Studies 353.*)
Formerly: Topics in African-American Religion (3) Selected figures, themes, movements, or problems in the African-American religious tradition. Variable content. Writing-emphasis course. (*Same as Africana Studies 353.*)

†374 Introduction to Hinduism (3) Survey of the development of the major Hindu themes of philosophical and religious thought and practice in India. Writing-emphasis course. (*Same as Philosophy 374.*)
Formerly: Philosophy and Religion in India (3) Survey of the development of the major non-Buddhist themes of philosophical and religious thought in India. Writing-emphasis course. (*Same as Philosophy 374.*)

DROP (RE) PREREQUISITE

333 Islam in the Modern World (3)

Formerly: (RE) Prerequisite(s): 332.

REVISE TITLE

†373 Religions of Africa (3) (*Same as Africana Studies 373; Anthropology 373.*)
Formerly: African Religions.

†376 Introduction to Buddhism (3) (*Same as Philosophy 376.*)
Formerly: Buddhist Philosophy and Religion.

†379 Religions and Philosophies of China (3) (*Same as Philosophy 379.*)
Formerly: Religion and Philosophy in China.

383 Religions of Japan (3)
Formerly: Religion in Japan.

REVISE DESCRIPTION (ADD WRITING EMPHASIS)

384 Zen Buddhism (3) Historical, philosophical, and meditational aspects of Zen. Special emphasis on motifs of emptiness, no-mind, and enlightenment and on practices of meditation and the use of the koan. Writing-emphasis course.
Formerly: Zen Buddhism (3) Historical, philosophical, and meditational aspects of Zen. Special emphasis on motifs of emptiness, no-mind, and enlightenment and on practices of meditation and the use of the koan.

DROP REGISTRATION PERMISSION

425 Seminar in Western Religions (3)

Formerly: Registration Permission: Consent of instructor.

430 Seminar in North American Religions (3)

Formerly: Registration Permission: Consent of instructor.

REVISE DESCRIPTION, DROP REGISTRATION PERMISSION

440 Seminar in Comparative Religion (3) Cross-cultural analysis of global religious actors, movements, and themes. Writing-emphasis course.

Formerly: Selected figures, themes, movements, and problems.

Registration Permission: Consent of instructor.

DEPARTMENT OF SOCIOLOGY

(915) (SOCI) Sociology

ADD

342 Globalization and Justice (3) Sociological examination of globalization and related social justice issues.

363 Food, Agriculture, and Society (3) Social and environmental dimensions of production, distribution, and consumption of food, with particular emphasis on historical and cross-national examples.

431 Applied Sociological Research (3) Survey of advanced topics in sociological research, and hands-on application of research methods.

(RE) Prerequisite(s): 331.

Comment(s): Encouraged for students interested in graduate school. Required for sociology honors students.

456 Punishment and Society (3) Examines theories and practices of punishment, including imprisonment, capital punishment, transnational penal trends, and social policy alternatives.

457 Honors Thesis in Sociology (3) Independent study for developing and writing the honors thesis in sociology.

466 Issues in Race and Ethnicity (3) Survey of advanced topics in the sociological study of race and ethnicity.

ADD

362 Population (3) Demographic factors and social structure. Trends in fertility, mortality, population growth, migration, distribution, and composition. Population policy.

DROP

462 Population (3)

Equivalency Table

Current Courses Sociology (SOCI)	Equivalent Courses Effective Fall 2012 Sociology (SOCI)
462	362

ADD

449 Juvenile Delinquency and Social Policy (3) This course examines the historical and contemporary nature and social contexts of juvenile delinquency, as well as theoretical explanations of and social reactions to delinquency in American society.

DROP

351 Juvenile Delinquency and Social Policy (3)

Equivalency Table

Current Courses Sociology (SOCI)	Equivalent Courses Effective Fall 2012 Sociology (SOCI)
351	449

DROP

***117 Honors: Social Justice and Social Change (3)**

382 Medical Sociology (3)

†385 Race, Class, and Health (3) (*Same as Africana Studies 385.*)

445 Global Solutions for Global Justice (3)

459 White Collar Crime (3)

464 Urban Ecology (3)

REVISE TITLE

***110 Social Problems and Social Justice (3)**

Formerly: Social Justice and Social Change

***120 Introduction to Sociology (3)**

Formerly: General Sociology

***127 Honors: Introduction to Sociology (3)**

Formerly: Honors: General Sociology

344 Political Sociology (3)

Formerly: Power and Society

455 Law and Society (3)

Formerly: Society and Law

REVISE DESCRIPTION, ADD COMMENT

†442 Comparative Poverty and Development (3) Critical examination of patterns of poverty and inequality in developing areas of the world, and review of major theories of development. Writing-emphasis course. (*Same as Africana Studies 442.*)

Comment(s): Sociology 342 is recommended before taking Sociology 442.

Formerly: A critical examination of patterns of poverty and inequality in developing areas of the world, along with a review of major sociological theories which attempt to explain differences in patterns of development. Writing-emphasis course. (*Same as Africana Studies 442.*)

DEPARTMENT OF THEATRE

(976) (THEA) Theatre

ADD

107 Honors: Introduction to Theatre (3) Honors introduction to understanding theatre thought, philosophy, aesthetics and production practices. Writing-emphasis course.

Credit Restriction: Students may not receive credit for both Theatre 100 and Theatre 107.

Comment(s): Same as Theatre 100, but designed for high-achieving students.

497 Honors: Senior Project (3) Substantial endeavor in design, performance, directing and/or playwriting representing the capstone of a student's undergraduate education.

Repeatability: May be repeated. Maximum 6 hours.

Registration Permission: Consent of instructor.

PART II: PROGRAM CHANGES

REVISE COLLEGE TEXT (FIRST PARAGRAPH)

The College of Arts and Sciences is home to a wide array of academic disciplines and interdisciplinary programs. Such diverse areas of study as classics, anthropology, women's studies and Latin American and Caribbean studies are represented among the 21 departments and schools and 12 13 special programs that compose the college.

REVISE COLLEGE TEXT (PRE-PROFESSIONAL PROGRAM HEADING, 1ST SENTENCE)

The pre-professional program is offered for those who wish to participate in the cooperative 3+1 curricula in the health sciences (medicine, dentistry, pharmacy, or veterinary medicine, ~~or nuclear medicine technology~~).

REVISE COLLEGE TEXT (PART A: DIVISIONAL DISTRIBUTION REQUIREMENTS)

Natural Science, List A

Add: ASTR 151-ASTR 153-ASTR 152-ASTR 154 (all four must be taken to fulfill the two course sequence requirement)

Social Science, List A

Add: GEOG 201

Drop: GEOG 102, SOCI 117

Social Science, List B

Drop: REST 301

Arts and Humanities, List A—Literature

Add: LAC 315, MRST 261, MRST 262, MRST 401, MRST 402

Drop: LAMS 315, MDST 261, MDST 262, MDST 401, MDST 402, REST 313

Arts and Humanities, List B—Philosophical and Religious Thought

Add: PHIL 345, PHIL 346, PHIL 348, PHIL 391

Arts and Humanities, List C—Study or Practice of the Arts

Add: ARTD 150

REVISE COLLEGE TEXT (PART B: UPPER-LEVEL DISTRIBUTION REQUIREMENTS)

List A—United States Studies

Add: AMST 354, ECON 471, REST 354

Drop: ECON 371

List B—Foreign Studies--Africa

Add: GEOG 343

List B—Foreign Studies--Asia

Add: REST 384, REST 375

Drop: REST 378

List B—Foreign Studies—Europe

Add: CLAS 345, MRST 322, MRST 403, MRST 405, MRST 432, MRST 442, MRST 452, REST 345

Drop: MDST 322, MDST 403, MDST 405, MDST 432, MDST 442, MDST 452

List B—Foreign Studies—Latin America

Add: LAC 303, LAC 313, LAC 314, LAC 319, LAC 326, LAC 331, LAC 343, LAC 344, LAC 360, LAC 361, LAC 373, LAC 401, LAC 430, LAC 456, LAC 465, LAC 475

Drop: LAMS 303, LAMS 313, LAMS 314, LAMS 319, LAMS 326, LAMS 331, LAMS 343, LAMS 344, LAMS 360, LAMS 361, LAMS 373, LAMS 401, LAMS 430, LAMS 456, LAMS 465, LAMS 475

List B—Foreign Studies—Middle East

Add: REST 423

List B—Foreign Studies—Critical Issues in Foreign Studies

Add: GEOG 344, JST 386, REST 386, REST 440

List B—Foreign Studies—Literature Courses Taught in a Foreign Language

Add: ITAL 405

SCHOOL OF ART

REVISE ART HISTORY MAJOR

II. Major (24 hours)**B. Select 6 additional hours:**

Any ~~200-400~~ ~~300-400~~ level Art History courses
ARCH 211 - History and Theory of Architecture I
ARCH 212 - History and Theory of Architecture II
ARCH 213 - Modern Architecture: Histories And Theories
ARCH 410 - History and Theory of Urban Form
ARCH 412 - Non-Western and Indigenous Architecture
ARCH 417 - The International Style
ARCH 420 - History of American Architecture
~~CLAS 232 - Archaeology and Art of Ancient Greece and Rome~~
CLAS 436 - Cities and Sanctuaries of the Greek and Roman World
CLAS 442 - Intensive Survey of the Archaeology of the Prehistoric Aegean
CLAS 443 - Intensive Survey of the Archaeology of Greece
CLAS 444 - Intensive Survey of the Archaeology of Etruria and Rome
CLAS 461 - Special Topics in Classical Archaeology
REST 373 - African Religions

REVISE STUDIO ART MAJOR, BFA – TWO-DIMENSIONAL ARTS CONCENTRATION

I. Foundation**E. Select one course (200-level studio course) from concentrations listed above or:**

~~ARTD 251 – Beginning Graphic Design I~~
~~ARTD 252 – Beginning Graphic Design II~~
~~ARTD 255 – Graphic Design Production~~
~~ARTD 259 – Special Topics: Graphic Design~~

II. Concentration–Two-Dimensional Arts**B. Select 20 16 hours (300-400 level concentration courses):****C. Select 18 16 hours (200 300-400 level concentration courses studio electives):****Add to Options:****Art Design/Graphic**

~~ARTD 251 – Beginning Graphic Design I~~
~~ARTD 252 – Beginning Graphic Design II~~
~~ARTD 255 – Graphic Design Production~~
~~ARTD 259 – Special Topics: Graphic Design~~
~~ARTD 351 – Intermediate Graphic Design I~~
~~ARTD 352 – Intermediate Graphic Design II~~
~~ARTD 400 – Typography~~
~~ARTD 401 – Experiments in Sequencing~~
~~ARTD 405 – Computer Enhanced Graphic Design~~
~~ARTD 410 – Advanced Typographic Investigation~~
~~ARTD 425 – Illustration~~
~~ARTD 450 – Design in Culture~~
~~ARTD 451 – Advanced Graphic Design~~
~~ARTD 459 – Special Topics in Graphic Design~~
~~ARTD 493 – Independent Study~~
~~ARTD 494 – Individual Problems~~
~~ARTD 495 – Visiting Artist Seminar~~

D. Complete 3 6 hours (capstone):

ARTA 496 - Capstone

REVISE STUDIO ART MAJOR, BFA – THREE-DIMENSIONAL ARTS CONCENTRATION

I. Foundation**E. Select one course (200-level studio course) from concentrations listed above or:**

~~ARTD 251 – Beginning Graphic Design I~~

ARTD 252 – Beginning Graphic Design II
ARTD 255 – Graphic Design Production
ARTD 259 – Special Topics: Graphic Design

II. Concentration–Three-Dimensional Arts

B. Select 20 16 hours (300-400 level concentration courses):

C. Select 18 16 hours (200 300-400 level concentration courses studio electives):

Add to Options:

Art Design/Graphic

ARTD 251 – Beginning Graphic Design I
ARTD 252 – Beginning Graphic Design II
ARTD 255 – Graphic Design Production
ARTD 259 – Special Topics: Graphic Design
ARTD 351 – Intermediate Graphic Design I
ARTD 352 – Intermediate Graphic Design II
ARTD 400 – Typography
ARTD 401 – Experiments in Sequencing
ARTD 405 – Computer Enhanced Graphic Design
ARTD 410 – Advanced Typographic Investigation
ARTD 425 – Illustration
ARTD 450 – Design in Culture
ARTD 451 – Advanced Graphic Design
ARTD 459 – Special Topics in Graphic Design
ARTD 493 – Independent Study
ARTD 494 – Individual Problems
ARTD 495 – Visiting Artist Seminar

D. Complete 3 6 hours (capstone):

ARTB 496 - Capstone

REVISE STUDIO ART MAJOR, BFA – FOUR-DIMENSIONAL ARTS CONCENTRATION

I. Foundation

E. Select one course (200-level studio course) from concentrations listed above or:

ARTD 251 – Beginning Graphic Design I
ARTD 252 – Beginning Graphic Design II
ARTD 255 – Graphic Design Production
ARTD 259 – Special Topics: Graphic Design

II. Concentration–Four-Dimensional Arts

B. Select 20 16 hours (300-400 level concentration courses):

C. Select 18 16 hours (200 300-400 level concentration courses studio electives):

Add to Options:

Art Design/Graphic

ARTD 251 – Beginning Graphic Design I
ARTD 252 – Beginning Graphic Design II
ARTD 255 – Graphic Design Production
ARTD 259 – Special Topics: Graphic Design
ARTD 351 – Intermediate Graphic Design I
ARTD 352 – Intermediate Graphic Design II
ARTD 400 – Typography
ARTD 401 – Experiments in Sequencing
ARTD 405 – Computer Enhanced Graphic Design
ARTD 410 – Advanced Typographic Investigation
ARTD 425 – Illustration
ARTD 450 – Design in Culture
ARTD 451 – Advanced Graphic Design
ARTD 459 – Special Topics in Graphic Design
ARTD 493 – Independent Study
ARTD 494 – Individual Problems
ARTD 495 – Visiting Artist Seminar

D. Complete 3 6 hours (capstone):

ARTC 496 - Capstone

REVISE STUDIO ART MINOR

Required Courses

Select 14 hours of which a minimum of 8 must be at the 300-400 level. ~~Select up to 7 hours (200-400 level studio courses):~~

Two-Dimensional Arts

ARTA 211 - Drawing I
ARTA 212 - Drawing II
ARTA 213 - Painting I: Introduction
ARTA 214 - Painting II
ARTA 215 - Watercolor I: Introduction
ARTA 216 - Watercolor II
ARTA 219 - Special Topics in Drawing/Painting
ARTA 231 - Photography I
ARTA 262 - Intaglio I
ARTA 263 - Lithography I
ARTA 264 - Screen Printing I
ARTA 265 - Relief
ARTA 266 - Monoprint and Monotype
ARTA 269 - Special Topics in Printmaking
ARTA 291 - Papermaking and Book Arts Workshop
ARTA 311 - Drawing III
ARTA 312 - Drawing Portfolio Review
ARTA 313 - Painting III
ARTA 331 - Photography II
ARTA 341 - Digital Photography
ARTA 342 - Large Format Photography I
ARTA 361 - Intermediate Print Workshop
ARTA 411 - Drawing IV
ARTA 413 - Painting IV
ARTA 419 - Special Topics in Drawing and Painting
ARTA 431 - Photography III
ARTA 461 - Advanced Print Workshop
ARTA 469 - Special Topics in Printmaking
ARTA 493 - Independent Study
ARTA 494 - Individual Problems

Three-Dimensional Arts

ARTB 221 - Ceramic Sculpture
ARTB 222 - Beginning Pottery
ARTB 229 - Ceramics: Special Topics
ARTB 241 - Beginning Sculpture
ARTB 242 - Figuring the Body
ARTB 243 - Mold-Making and Casting
ARTB 245 - Metal Fabrication
ARTB 246 - Mixed Media Sculpture
ARTB 249 - Special Topics in Sculpture
ARTB 321 - Intermediate Ceramic Sculpture
ARTB 322 - Intermediate Pottery
ARTB 341 - Intermediate Sculpture
ARTB 343 - Advanced Mold-Making and Casting
ARTB 345 - Advanced Metal Fabrication
ARTB 346 - Advanced Mixed Media Sculpture
ARTB 421 - Advanced Ceramic Sculpture
ARTB 422 - Advanced Pottery
ARTB 424 - Ceramics: Clays and Glazes
ARTB 429 - Ceramics: Special Topics
ARTB 441 - Advanced Sculpture
ARTB 442 - Senior Seminar
ARTB 449 - Special Topics in Sculpture

ARTB 493 - Independent Study
ARTB 494 - Individual Problems

Four-Dimensional Arts

ARTC 232 - Introduction to Performance as Art
ARTC 234 - Introduction to Sound Art
ARTC 235 - Introduction to Cinematography as Art
ARTC 236 - Introduction to Video Art
ARTC 239 - Special Topics in Four-Dimensional Arts
ARTC 401 - Experiments in Sequencing
ARTC 402 - Experiments in Space
ARTC 403 - Experiments in Systems
ARTC 432 - Performance as Art
ARTC 433 - History of Film and Modern and Contemporary Art
ARTC 434 - Sound Art
ARTC 435 - Cinematography as Art
ARTC 436 - Video Art
ARTC 439 - Special Topics in Four-Dimensional Arts
ARTC 450 - Senior Project
ARTC 493 - Independent Study
ARTC 494 - Individual Problems

Select at least 8 hours (300-400 level studio courses):**Two-Dimensional Arts**

~~ARTA 311—Drawing III~~
~~ARTA 312—Drawing Portfolio Review~~
~~ARTA 313—Painting III~~
~~ARTA 331—Photography II~~
~~ARTA 341—Digital Photography~~
~~ARTA 342—Large-Format Photography I~~
~~ARTA 361—Intermediate Print Workshop~~
~~ARTA 411—Drawing IV~~
~~ARTA 413—Painting IV~~
~~ARTA 419—Special Topics in Drawing and Painting~~
~~ARTA 431—Photography III~~
~~ARTA 461—Advanced Print Workshop~~
~~ARTA 469—Special Topics in Printmaking~~
~~ARTA 493—Independent Study~~
~~ARTA 494—Individual Problems~~

Three-Dimensional Arts

~~ARTB 321—Intermediate Ceramic Sculpture~~
~~ARTB 322—Intermediate Pottery~~
~~ARTB 341—Intermediate Sculpture~~
~~ARTB 343—Advanced Mold-Making and Casting~~
~~ARTB 345—Advanced Metal Fabrication~~
~~ARTB 346—Advanced Mixed Media Sculpture~~
~~ARTB 421—Advanced Ceramic Sculpture~~
~~ARTB 422—Advanced Pottery~~
~~ARTB 424—Ceramics: Clays and Glazes~~
~~ARTB 429—Ceramics: Special Topics~~
~~ARTB 441—Advanced Sculpture~~
~~ARTB 442—Senior Seminar~~
~~ARTB 449—Special Topics in Sculpture~~
~~ARTB 493—Independent Study~~
~~ARTB 494—Individual Problems~~

Four-Dimensional Arts

~~ARTC 401—Experiments in Sequencing~~
~~ARTC 402—Experiments in Space~~
~~ARTC 403—Experiments in Systems~~
~~ARTC 432—Performance as Art~~
~~ARTC 433—History of Film and Modern and Contemporary Art~~
~~ARTC 434—Sound Art~~
~~ARTC 435—Cinematography as Art~~

ARTC 436—Video Art
ARTC 439—Special Topics in Four-Dimensional Arts
ARTC 450—Senior Project
ARTC 493—Independent Study
ARTC 494—Individual Problems

DEPARTMENT OF BIOCHEMISTRY AND CELLULAR AND MOLECULAR BIOLOGY

REVISE DEPARTMENT TEXT (VOLSTEACH HEADING, 3RD PARAGRAPH)

Students pursuing a B.S. degree in the Department of Biochemistry and Cellular and Molecular Biology are eligible to participate in the University's VolsTeach program (<http://volsteach.utk.edu/>), which permits students to simultaneously complete a major in mathematics or science and receive secondary education teaching licensure within the 4-year undergraduate degree program through completion of a VolsTeach minor. **By petition, students pursuing a VolsTeach minor may apply INPG 385 to the Biochemistry and Cellular and Molecular Biology B.S. degree.** For more information about VolsTeach, including advising associated with teaching licensure requirements, contact the Center for Enhancing Education in Mathematics and Science (100 Greve Hall).

REVISE BIOLOGICAL SCIENCES MAJOR—BIOCHEMISTRY AND CELLULAR AND MOLECULAR BIOLOGY CONC

Biological Sciences Major — Prerequisites to all Concentrations

A minimum grade of C must be earned in all prerequisites.

BCMB Concentration

III. Select (13 total hours):

C. Select remaining hours:

BCMB courses numbered 300 and above (except BCMB 306, ~~BCMB 310~~)

DIVISION OF BIOLOGY

REVISE BIOLOGICAL SCIENCES MAJOR—PLANT BIOLOGY CONCENTRATION

Biological Sciences Major — Prerequisites to all Concentrations

A minimum grade of C must be earned in all prerequisites.

DEPARTMENT OF EARTH AND PLANETARY SCIENCES

REVISE GEOLOGY AND ENVIRONMENTAL STUDIES MAJOR—ENVIRONMENTAL STUDIES CONCENTRATION

Concentration Requirements

A. Select 15 hours:

GEOG 345 - Population and Environment

JREM 451 - Environmental Writing

PHIL 346 - Environmental Ethics

SOCI 360 - Environment and Resources

FWF 250 – Conservation

FWF 320 – Human Dimensions of Natural Resources (one course from this group only)

GLBS 250—Introduction to Global Studies (one course from this group only)

AREC 445 – Economics of Biomass for Renewable Energy

AREC 470 - Policy Analysis for Environmental and Natural Resource Management

ECON 362 - Environmental and Natural Resource Policy **(one course from this group only)**

B. Select one course:

GEOL 455 - Environmental Geology

GEOL 456 - Global Climate Change

C. Select one course:

CBE 481 – Green Engineering

EEB 484 - Conservation Biology

GEOG 436 - Water Resources

D. Complete:

GEOL 493 - Independent Study

REVISE ENVIRONMENTAL STUDIES MINOR

Minor Requirements

The minor consists of 15 hours.

Select 9 hours:

CBE 481 – Green Engineering

FWF 250 – Conservation

FWF 320 – Human Dimensions of Natural Resources

GEOL 202 – Earth as an Ecosystem: Modern Problems and Solutions

GEOL 206 – Sustainability: Reducing our Impact on Planet Earth

JREM 451 – Environmental Writing

SOCI 250 - Introduction to Global Studies

◆ DROP SUSTAINABILITY MINOR (MOVING BACK TO INTERDISCIPLINARY PROGRAMS)

DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY

REVISE DEPARTMENT TEXT (VOLSTEACH HEADING, 3RD PARAGRAPH)

Students pursuing a B.S. degree in the Department of Ecology and Evolutionary Biology are eligible to participate in the University's VolsTeach program (<http://volsteach.utk.edu/>), which permits students to simultaneously complete a major in mathematics or science and receive secondary education teaching licensure within the 4-year undergraduate degree program through completion of a VolsTeach minor. **By petition, students pursuing a VolsTeach minor may apply INPG 385 to the Ecology and Evolutionary Biology B.S. degree.** For more information about VolsTeach, including advising associated with teaching licensure requirements, contact the Center for Enhancing Education in Mathematics and Science (100 Greve Hall).

REVISE BIOLOGICAL SCIENCES MAJOR—ECOLOGY AND EVOLUTIONARY BIOLOGY CONCENTRATION

Biological Sciences Major — Prerequisites to all Concentrations

A minimum grade of C must be earned in all prerequisites.

EEB Concentration**III. Upper-Division Courses****D. Physiology/Chemical Ecology (select one):**

BCMB 321 - Introductory Plant Physiology

BCMB 415 - Foundations in Neurobiology

BCMB 416 - Neurobiology Laboratory *

BCMB 419 - Cellular and Comparative Biochemistry Laboratory *

BCMB 440 - General Physiology

CHEM 360 - Organic Chemistry II

CHEM 369 - Organic Chemistry Laboratory *

EEB 463 - Plant Ecophysiology *

EEB 404 – Ecosystem Ecology

EEB 405 – Ecosystem Ecology Laboratory

MICR 310 - Introduction to Microbiology

MICR 319 - Introductory Microbiology Laboratory *

NUTR 311 - Physiological Chemistry

DEPARTMENT OF ENGLISH

REVISE ENGLISH MAJOR—ALL CONC (CREATIVE WRITING, LITERATURE, RHETORIC/WRITING, TECHNICAL COMM)

Language, Theory, Folklore, Cultural, Ethnic, Gender, or Film Studies

Add: ENGL 444 – Appalachian Literature and Culture

Special Topics, Major Authors, or Senior Seminar

Add: ENGL 489 – Special Topics in Film

DEPARTMENT OF GEOGRAPHY

REVISE GEOGRAPHY MAJOR

Students who enter the major with more than 60 hours of credit, and who have completed a laboratory science sequence other than geography, may petition the department to substitute certain upper-division physical geography courses for GEOG 131 /GEOG 137 and/or GEOG 132 . Students who enter the major with more than 60 hours of credit, and who have met the social science divisional requirements in departments other than geography, may petition the department to substitute certain upper-division human geography courses for GEOG 101 or **GEOG 201** **GEOG 102**.

College Requirements

Arts and Sciences

Prerequisites**Complete:**

GEOG 131 - Geography of the Natural Environment I

or

GEOG 137 - Honors: Geography of the Natural Environment I

and

GEOG 132 - Geography of the Natural Environment II

Select one course:

GEOG 101 - World Geography

GEOG 201 – Concepts in Human Geography

GEOG 102 – World Geography

Major Requirements

The major consists of 27 hours. No more than 3 hours of GEOG 490 may be counted toward the major.

Complete:

GEOG 310 - Introduction to Cartography

GEOG 499 - Proseminar in Geography

Select one methods course:

GEOG 410 - Global Positioning Systems and Geographic Data

GEOG 411 - Introduction to Geographic Information Science

GEOG 413 - Remote Sensing: Types and Applications

GEOG 414 - Spatial Databases and Data Management

GEOG 419 - Practicum in Cartography/Remote Sensing

Select one human geography course:

GEOG 320 - Cultural Geography: Core Concepts

GEOG 340 - Economic Geography: Core Concepts

GEOG 343 – Geography of Human Rights

GEOG 344 – Population Geography

GEOG 345 - **People Population** and Environment

GEOG 421 - Geography of Folk Societies

GEOG 423 - Geography of American Popular Culture

GEOG 441 - Urban Geography of the United States

GEOG 442 - Urban Social Geography

GEOG 443 - Rural Geography of the United States

GEOG 445 – Cities in a World System

GEOG 449 - Geography of Transportation

GEOG 451 - The Global Economy

Select one regional geography course:

GEOG 361 - Regional Geography of the United States and Canada
GEOG 363 - Geography of the American South
GEOG 365 - Geography of Appalachia
GEOG 366 - Geography of Tennessee
GEOG 371 - Geography of Europe
GEOG 373 - Geography of South America
GEOG 374 - Geography of East Asia
GEOG 375 – Geography of South Asia

Select one physical geography course:

GEOG 331 – Natural Hazards
GEOG 333 – Climate Change and Human Response
GEOG 334 – Meteorology
GEOG 430 – Global Environments of the Quaternary
GEOG 432 - Dendrochronology
GEOG 433 - The Land-Surface System
GEOG 434 - Climatology
GEOG 435 - Biogeography
GEOG 436 - Water Resources
GEOG 439 - Plant Geography of North America
GEOG 450 - Process Geomorphology
GEOG 454 - Terrain Analysis

Select 9 additional hours:

300-400 level geography courses

DEPARTMENT OF HISTORY

REVISE HISTORY MAJOR

Major Requirements**Select 24 upper-division hours:****Select one course in European History:**

Add:

- HIST 336 – Modern France
- HIST 434 – Modern European Imperialism
- HIST 466 – Studies in Ancient History

Select one course in United States History:

Add:

- HIST 365 – U.S. Economic History to 1865

Select two courses (from two different areas):**Asia**

Add:

- HIST 494 – History of Tokyo

Select one course from Pre-1750 History:

Add:

- HIST 392 – History of Pre-Modern Japan
- HIST 466 – Studies in Ancient History

REVISE HISTORY MAJOR—HONORS CONCENTRATION

Select 24 upper-division hours:**Select one course in European History:**

Add:

- HIST 336 – Modern France
- HIST 434 – Modern European Imperialism
- HIST 466 – Studies in Ancient History

Select one course in United States History:

Add:

- HIST 365 – U.S. Economic History to 1865

- HIST 417 – Honors: Seminar in United States History

Select two courses (from two different areas):

Asia

Add:

- HIST 494 – History of Tokyo

Select one course from Pre-1750 History:

Add:

- HIST 392 – History of Pre-Modern Japan
- HIST 466 – Studies in Ancient History

REVISE HISTORY MINOR

~~HIST 241-HIST 242 or HIST 261-HIST 262 (or their honors equivalents) plus at least 6 hours in United States History (200 or above) and 9 upper-division hours (300 or above). HIST 241-HIST 242 or HIST 261-HIST 262 (or honors equivalents) are prerequisites to a minor which consists of 15 hours of courses numbered 200 or above, including at least 6 hours in United States history and 9 upper-division hours.~~

INTERDISCIPLINARY PROGRAMS

REVISE DEPARTMENT TEXT

In keeping with the philosophy that integration of knowledge is as important as proficiency in a given field, the College of Arts and Sciences has combined the resources of several departments to offer a series of interdisciplinary majors and minors. These programs are Africana Studies, American Studies, Asian Studies, Cinema Studies, Comparative Literature, Global Studies, Judaic Studies, Latin American ~~and Caribbean~~ Studies, Linguistics, Medieval ~~and Renaissance~~ Studies, ~~Sustainability~~, and Women's Studies.

REVISE INTERDISCIPLINARY PROGRAMS MAJOR—AFRICANA STUDIES CONCENTRATION

Concentration Requirements

Select 3 hours:

- AFST 201 - Introduction to African-American Studies
- AFST 202 - Introduction to African-American Studies
- AFST 225 - Introduction to African Literature
- AFST 226 - Introduction to Caribbean Literature
- AFST 233 - Major Black Writers
- AFST 235 - Introduction to African Studies
- AFST 236 - Introduction to African Studies
- AFST 310 - ~~Music and the African Diaspora~~ ~~Introduction to African-American Music~~

REVISE AFRICANA STUDIES MINOR

Minor Requirements

Select 9 hours:

- AFST 310 - ~~Music and the African Diaspora~~ ~~Introduction to African-American Music~~

REVISE INTERDISCIPLINARY PROGRAMS MAJOR—AMERICAN STUDIES CONCENTRATION

Concentration Requirements

Select one course (American ethnic minority cultures):

- AFST 310 - ~~Music and the African Diaspora~~ ~~Introduction to African-American Music~~

REVISE AMERICAN STUDIES MINOR

Select 12 hours (from at least two different disciplines):

- AFST 310 - ~~Music and the African Diaspora~~ ~~Introduction to African-American Music~~

REVISE CINEMA STUDIES MINOR

Minor Requirements**Select 3 hours:**

CNST 235 233 – Introduction to Cinematography as Art

CNST 236 234 – Introduction to Video Art

JREM 336 – Video Production

Select 9 additional hours:

any cinema studies courses

any courses cross-listed with cinema studies

~~JREM 175 – Principles and History of Journalism and Media~~

JREM 336 - Video Production

JREM 436 - Advanced Video Production

REVISE INTERDISCIPLINARY PROGRAMS MAJOR—JUDAIC STUDIES CONCENTRATION

Concentration Requirements**Select 12 hours:**

REST 311 - Introduction to the Hebrew Bible

REST 312 - ~~Introduction to Early Judaism~~ ~~Religious Aspects of Biblical and Classical Literature~~

REST 320 - Women and Religion

REST 385 - Contemporary Jewish Thinkers

REST 386 - Voices of the Holocaust

REST 405 - Modern Jewish Thought

HIST 370 - History of the Middle East

Select 9 hours:

ARTH 425 - Early Christian and Byzantine Art to 1350

ARTH 431 - Medieval Art of the West, 800-1400

ARTH 475 - History of 19th-Century Painting and Sculpture in Europe

GERM 350 - German-Jewish Topics in Literature and Culture

HIST 369 - History of the Middle East

HIST 395 - The Crusades and Medieval Christian-Muslim Relations

HIST 484 - Studies in Jewish History

PHIL 322 - Medieval Philosophy

~~REST 321 – New Testament and Early Christian Origins~~

◆ DROP INTERDISCIPLINARY PROGRAMS MAJOR—LATIN AMERICAN STUDIES CONCENTRATION, BA

◆ ADD INTERDISCIPLINARY PROGRAMS MAJOR—LATIN AMERICAN AND CARIBBEAN STUDIES CONCENTRATION, BA

Michael Handelsman, Modern Foreign Languages and Literatures, Chair

The concentration consists of two optional tracks – general studies or Brazilian studies.

College Requirements

Arts and Sciences

Latin American and Caribbean Studies--General Studies TrackThe general studies track requires **27 upper-division hours** taken from courses offered by at least three different academic departments.**General Studies Requirements****Select 3 hours:**

SPAN 323 - Upper-level Grammar and Composition

PORT 315 - Aspects of Luso-Brazilian Literature

PORT 326 - Brazilian Cinema

Select 24 hours:

ANTH 313 - Peoples and Cultures of Mesoamerica

ANTH 316 - Peoples and Cultures of South America

ANTH 319 - Caribbean Cultures and Societies
GEOG 373 - Geography of South America
HIST 343 - History of Mexico
HIST 344 - History of Brazil
HIST 360 - History of Early Latin America to 1824
HIST 361 - History of Modern Latin America since 1810
HIST 464 - The Spanish Conquest
HIST 465 - Gender and Sexuality in Early Latin America
HIST 475 - Studies in Latin American History
POLS 456 - Latin American Government and Politics
PORT 315 - Aspects of Luso-Brazilian Literature
PORT 326 - Brazilian Cinema
PORT 430 - Contemporary Brazilian Studies
PORT 432 - Topics in the Literature and Culture of the Portuguese-speaking World
SPAN 323 - Upper-level Grammar and Composition
SPAN 331 - Introduction to Hispanic Culture
SPAN 333 - Survey of Spanish-American Literature: 1700-Present
SPAN 334 - Survey of Hispanic Literatures: Beginnings-1700
SPAN 401 - Cultural Plurality and Institutional Changes in Latin America
SPAN 402 - Latin American Studies Seminar
SPAN 465 - Latin American Film and Culture
SPAN 479 - Disenchanted Texts in Hispanic Literature

Latin American and Caribbean Studies--Brazilian Studies Track

The Brazilian studies track requires **27 upper-division hours** offered by at least three different academic departments.

Brazilian Studies Requirements**Select 9 hours:**

HIST 344 - History of Brazil
PORT 315 - Aspects of Luso-Brazilian Literature
PORT 326 - Brazilian Cinema
PORT 430 - Contemporary Brazilian Studies
PORT 432 - Topics in the Literature and Culture of the Portuguese-speaking World

Select 6 hours (Summer Study Abroad):

PORT 491 - Foreign Study
PORT 493 - Independent Study

Select 12 hours:

ANTH 313 - Peoples and Cultures of Mesoamerica
ANTH 316 - Peoples and Cultures of South America
ANTH 319 - Caribbean Cultures and Societies
GEOG 373 - Geography of South America
HIST 343 - History of Mexico
HIST 344 - History of Brazil
HIST 360 - History of Early Latin America to 1824
HIST 361 - History of Modern Latin America since 1810
HIST 464 - The Spanish Conquest
HIST 465 - Gender and Sexuality in Early Latin America
HIST 475 - Studies in Latin American History
POLS 456 - Latin American Government and Politics
PORT 315 - Aspects of Luso-Brazilian Literature
PORT 326 - Brazilian Cinema
PORT 430 - Contemporary Brazilian Studies
PORT 432 - Topics in the Literature and Culture of the Portuguese-speaking World
SPAN 331 - Introduction to Hispanic Culture 176
SPAN 333 - Survey of Spanish-American Literature: 1700-Present
SPAN 334 - Survey of Hispanic Literatures: Beginnings- 1700
SPAN 401 - Cultural Plurality and Institutional Changes in Latin America
SPAN 402 - Latin American Studies Seminar
SPAN 465 - Latin American Film and Culture
SPAN 479 - Disenchanted Texts in Hispanic Literature
SPAN 323 - Upper-level Grammar and Composition

Note: For the Brazilian Studies track, a minimum of 6 hours must be taken as part of UT Knoxville's summer study program in Fortaleza, Brazil.

◆ DROP LATIN AMERICAN STUDIES MINOR

◆ ADD LATIN AMERICAN AND CARIBBEAN STUDIES MINOR

The minor consists of **18 hours** taken from courses offered by at least three different academic departments. Six of the hours are to be the Introduction to Latin American and Caribbean Studies sequence LAC 251-LAC 252; 3 of the hours are to be selected from either SPAN 323 or PORT 315, PORT 326; the remaining 9 hours are to be selected from the courses listed in either track of the Latin American and Caribbean Studies Concentration, BA (Interdisciplinary Major).

◆ DROP INTERDISCIPLINARY PROGRAMS MAJOR—MEDIEVAL STUDIES CONCENTRATION

◆ ADD INTERDISCIPLINARY PROGRAMS MAJOR—MEDIEVAL AND RENAISSANCE STUDIES CONCENTRATION

Heather Hirschfeld, English, Chair

The Interdisciplinary Program in Medieval & Renaissance Studies offers students the opportunity to explore cultures and societies of western Europe, the Mediterranean, and the Middle East, from the collapse of the Roman Empire through the 17th century. The curriculum covers topics associated with these early periods and methodological approaches to them from the humanities, social sciences, languages, and arts. The concentration emphasizes the study of distinct and temporally remote cultures, including their material conditions, social and political institutions, values and ideals, and modes of perception and expression. It encourages students to encounter the past as "another country" and thus to understand in new ways the historical conditions that have shaped our increasingly interconnected contemporary world.

College Requirements

Arts and Sciences

Concentration Requirements

The concentration consists of **30 hours** as follows:

Select one course:

MRST 201 – Medieval Civilization I
MRST 202 – Medieval Civilization II

Complete:

HIST 314 – Renaissance Europe

Select two 200 level foundational courses:

ARCH 211 - History and Theory of Architecture I
ARCH 217 - Honors: History and Theory of Architecture I
CLAS 201 - Introduction to Classical Civilization
ENGL 201 - British Literature I: Beowulf through Johnson
ENGL 206 - Introduction to Shakespeare
ENGL 207 - Honors: British Literature I
ENGL 221 - World Literature I: Ancient through Early Modern
MRST 201 - Medieval Civilization (if not used to meet requirement above)
MRST 202 - Medieval Civilization (if not used to meet requirement above)
MRST 261 - Medieval Culture: Readings from the Early Middle Ages, 500-1000
MRST 262 - Medieval Culture: Readings from the Later Middle Ages, 1000-1500
MUCO 210 - History of Western Music, Ancient to the Baroque

Select five upper level elective courses from at least two departments:

ARTH 425 - Early Christian and Byzantine Art to 1350
ARTH 431 - Medieval Art of the West, 800-1400
ARTH 441 - Northern European Painting, 1350-1600
ARTH 442 - Art of Northern Europe, 1600-1675
ARTH 451 - The Art of Italy, 1250-1450
ARTH 452 - Art of Italy, 1450-1575
ARTH 453 - Art of Southern Europe, 1575-1700
ARTH 454 - Renaissance and Baroque Theory
ASLN 451 - Readings in Pre-Modern Japanese Literature
CLAS 382 - Roman Civilization

CLAS 435 - Medieval Latin
CLAS 445 - Ancient and Medieval Seafaring
CLAS 471 - Special Topics in Medieval Latin Literature
CLAS 472 - Latin Paleography and Book Culture in the Middle Ages I
CLAS 473 - Latin Paleography and Book Culture in the Middle Ages II
ENGL 301 - British Culture to 1660
ENGL 321 - Introduction to Old English
ENGL 401 - Medieval Literature
ENGL 402 - Chaucer
ENGL 403 - Introduction to Middle English
ENGL 404 - Shakespeare I: Early Plays
ENGL 405 - Shakespeare II: Later Plays
ENGL 406 - Renaissance Drama
ENGL 409 - Spenser and his Contemporaries
ENGL 410 - Milton, Donne, and their Contemporaries
FREN 410 – Topics in Medieval/Early Modern French Literature
GERM 434 - Extraordinary Wo(Men)—Outcasts, Rebels, Martyrs, and Saints
HIST 304 - History of the Roman Empire
HIST 305 - History of the Late Roman Empire
HIST 312- Medieval History
HIST 313 - Medieval History
HIST 315 - Reformation Europe, 1500-1650
HIST 321 - New Testament and Early Christian Origins
HIST 322 - Christianity in Late Antiquity
HIST 323 - Deviance and Persecution in the Christian West, 1100-1700
HIST 392 - History of Pre-Modern Japan
HIST 395 - The Crusades and Medieval Christian-Muslim Relations
HIST 429 - Medieval Intellectual History
HIST 464 - The Spanish Conquest
HIST 465 - Gender and Sexuality in Early Latin America
HIST 474 - Studies in Medieval and Early Modern European History
ITAL 401 - Dante and Medieval Culture
ITAL 402 - Petrarch and Boccaccio
ITAL 403 - Literature of the Rinascimento
MRST 491 – Foreign Study
MRST 492 – Off-Campus Study
MRST 493 –Independent Study
PHIL 320 - Ancient Western Philosophy
PHIL 322 - Medieval Philosophy
PHIL 324 -17th- and 18th-Century Philosophy
POLS 475 - Ancient and Medieval Political Thought
REST 332 - Classical Islam
REST 423 – Seminar in Early Christianity
RUSS 371 - Martyrs, Mobs, and Madmen in Russian Culture: 988-1861
SPAN 334 - Survey of Hispanic Literatures: Beginnings-1700
THEA 411 - Theatre History I

Capstone (3 hours):

Students will consult with the IDP advisor on an appropriate capstone project

Courses that can be used to meet this requirement include

MRST 403 – Topics in Medieval & Renaissance Studies
MRST 491 – Foreign Study
MRST 492 – Off-Campus Study
MRST 493 – Independent Study

Foreign Language: In consultation with the IDP Chair and based on their interests, students will select an appropriate language to their program, and achieve an intermediate level of competence as specified by the College of Arts & Sciences' distribution requirements. For students interested in medieval studies, Latin is usually the most appropriate language. For students interested in Renaissance studies, other languages such as French, Italian, Spanish, or German may be appropriate.

Special topics courses, when on a medieval or renaissance topic, may be approved by the IDP Chair and petitioned toward the major concentration as an upper level elective or capstone course.

◆ DROP MEDIEVAL STUDIES MINOR

◆ ADD MEDIEVAL AND RENAISSANCE STUDIES MINOR

The minor in Medieval and Renaissance Studies consists of **18 hours**, as follows.

Select one course:

MRST 201 – Medieval Civilization I
MRST 202 – Medieval Civilization II

Complete:

HIST 314 – Renaissance Europe

Select one 200 level Foundational course:

ARCH 211 - History and Theory of Architecture I
ARCH 217 - Honors: History and Theory of Architecture I
CLAS 201 - Introduction to Classical Civilization
ENGL 201 - British Literature I: Beowulf through Johnson
ENGL 206 - Introduction to Shakespeare
ENGL 207 - Honors: British Literature I
ENGL 221 - World Literature I: Ancient through Early Modern
MRST 201 - Medieval Civilization (if not used to meet requirement above)
MRST 202 - Medieval Civilization (if not used to meet requirement above)
MRST 261 - Medieval Culture: Readings from the Early Middle Ages, 500-1000
MRST 262 - Medieval Culture: Readings from the Later Middle Ages, 1000-1500
MUCO 210 - History of Western Music, Ancient to the Baroque

Select three upper level elective courses from at least two departments:

ARTH 425 - Early Christian and Byzantine Art to 1350
ARTH 431 - Medieval Art of the West, 800-1400
ARTH 441 - Northern European Painting, 1350-1600
ARTH 442 - Art of Northern Europe, 1600-1675
ARTH 451 - The Art of Italy, 1250-1450
ARTH 452 - Art of Italy, 1450-1575
ARTH 453 - Art of Southern Europe, 1575-1700
ARTH 454 - Renaissance and Baroque Theory
ASLN 451 - Readings in Pre-Modern Japanese Literature
CLAS 382 - Roman Civilization
CLAS 435 - Medieval Latin
CLAS 445 - Ancient and Medieval Seafaring
CLAS 471 - Special Topics in Medieval Latin Literature
CLAS 472 - Latin Paleography and Book Culture in the Middle Ages I
CLAS 473 - Latin Paleography and Book Culture in the Middle Ages II
ENGL 301 - British Culture to 1660
ENGL 321 - Introduction to Old English
ENGL 401 - Medieval Literature
ENGL 402 - Chaucer
ENGL 403 - Introduction to Middle English
ENGL 404 - Shakespeare I: Early Plays
ENGL 405 - Shakespeare II: Later Plays
ENGL 406 - Renaissance Drama
ENGL 409 - Spenser and his Contemporaries
ENGL 410 - Milton, Donne, and their Contemporaries
FREN 410 – Topics in Medieval/Early Modern French Literature
GERM 434 - Extraordinary Wo(Men)—Outcasts, Rebels, Martyrs, and Saints
HIST 304 - History of the Roman Empire
HIST 305 - History of the Late Roman Empire
HIST 312- Medieval History
HIST 313 - Medieval History
HIST 315 - Reformation Europe, 1500-1650
HIST 321 - New Testament and Early Christian Origins
HIST 322 - Christianity in Late Antiquity

HIST 323 - Deviance and Persecution in the Christian West, 1100-1700
HIST 392 - History of Pre-Modern Japan
HIST 395 - The Crusades and Medieval Christian-Muslim Relations
HIST 429 - Medieval Intellectual History
HIST 464 - The Spanish Conquest
HIST 465 - Gender and Sexuality in Early Latin America
HIST 474 - Studies in Medieval and Early Modern European History
ITAL 401 - Dante and Medieval Culture
ITAL 402 - Petrarch and Boccaccio
ITAL 403 - Literature of the Rinascimento
MRST 491 – Foreign Study
MRST 492 – Off-Campus Study
MRST 493 –Independent Study
PHIL 320 - Ancient Western Philosophy
PHIL 322 - Medieval Philosophy
PHIL 324 -17th- and 18th-Century Philosophy
POLS 475 - Ancient and Medieval Political Thought
REST 332 - Classical Islam
REST 423 – Seminar in Early Christianity
RUSS 371 - Martyrs, Mobs, and Madmen in Russian Culture: 988-1861
SPAN 334 - Survey of Hispanic Literatures: Beginnings-1700
THEA 411 - Theatre History I

Special topics courses, when on a medieval or renaissance topic, may be approved by the IDP Chair and petitioned toward the minor concentration as an upper level elective course.

◆ ADD INTERDISCIPLINARY PROGRAMS MAJOR—SUSTAINABILITY CONCENTRATION

Michael McKinney, Earth and Planetary Sciences, Chair

The sustainability concentration provides scientific, socioeconomic, and philosophical background for understanding and mitigating human impact on the natural environment.

College Requirements

Arts & Sciences

Prerequisites (16 hours)

ECON 201 - Introductory Economics
BIOL 250 - General Ecology or FWF 250 - Conservation
GEOL 103 - Earth's Environments or GEOG 131 - Geography of the Natural Environment
GEOL 206 - Sustainability
GLBS 250 - Introduction to Global Studies

Concentration Requirements

The concentration consists of **27 hours**.

I. Core Courses

A. Social Science Core

Select two courses:

ANTH 415 - Environmental Anthropology
AREC 315 - Agricultural and Environmental Law
GEOG 345 - People and Environment
SOCI 360 - Environment and Resources

B. Natural Science Core

Select two courses:

CBE 481 - Green Engineering
EEB 484 - Conservation Biology
GEOG 436 - Water Resources
GEOL 455 - Environmental Geology

II. Economics and Sustainability

Select one course:

AREC 445 - Economics of Biomass for Renewable Energy
AREC 470 - Policy Analysis for Environmental & Natural Resource Management
ECON 362 - Environmental and Natural Resource Policy

III. Resource Management**Select one course:**

ANTH 461- Archaeological Resource Management
FORS 422- Forest and Wildland Resource Policy
FWF 320 - Human Dimensions of Natural Resources
FWF 420 - International Natural Resource Issues
SOCI 362 - Society, Food & Environment

IV. Ethics and Sustainability**Select one course:**

SOCI 445 - Global Solutions for Global Justice
PHIL 346 - Environmental Ethics

V. Climate Change**Select one course:**

ESS 462 - Environmental Climatology
GEOG 333 - Climate Change and Human Response
GEOL 456 - Global Climate Change

VI. Capstone Experience**Complete:**

GEOL 493 - Independent Study

◆ ADD SUSTAINABILITY MINOR

The minor consists of **15 hours**.

Complete:

GEOL 206 – Sustainability: Reducing our Impact on Planet Earth

Select two courses:

AREC 315 – Agricultural and Environmental Law
AREC 470 – Policy Analysis for Environmental and Natural Resource Management
AREC 472 – Natural Resource Economics
ECON 362 – Environmental and Natural Resource Policy
FWF 320 – Human Dimensions of Natural Resources

Select two courses:

CBE 481 – Green Engineering
FWF 250 – Conservation
GEOG 345 – People and Environment
SOCI 360 – Environment and Resources

DEPARTMENT OF MATHEMATICS**REVISE MATHEMATICS MAJOR****Major Requirements**

The major consists of **37 hours** in 12 courses divided into 4 categories:

1. Core Courses
2. Courses for Breadth
3. Courses for Depth
4. Additional Courses (to reach 37 hours)

Courses used for Depth (3) may be used for Breadth (2).

1. For the Core, complete all of the following:

MATH 231 - Differential Equations I
MATH 241 - Calculus III

MATH 251 - Matrix Algebra I
MATH 300 - Introduction to Abstract Mathematics
(or honors equivalents)

2. For Breadth, select one course from each category:

Algebra

MATH 351 - Algebra I
MATH 455 - Abstract Algebra I
MATH 456 - Abstract Algebra II
MATH 457 - Honors: Abstract Algebra I
MATH 458 - Honors: Abstract Algebra II

Analysis

MATH 341 - Analysis I
MATH 445 - Advanced Calculus I
MATH 446 - Advanced Calculus II
MATH 447 - Honors: Advanced Calculus I
MATH 448 - Honors: Advanced Calculus II

Numerical Analysis

MATH 371 - Numerical Algorithms
COSC 370 - Introduction to Scientific Computing
MATH 471 - Numerical Analysis
MATH 472 - Numerical Algebra

Probability and Statistics

MATH 323 - Probability and Statistics
MATH 423 - Probability
MATH 424 - Stochastic Processes
MATH 425 - Statistics

3. For Depth, select one of the following pairings or a 2-course math graduate sequence:

MATH 423 - Probability
MATH 424 - Stochastic Processes

MATH 423 - Probability
MATH 425 - Statistics

MATH 423 - Probability
MATH 421 - Combinatorics

MATH 445 - Advanced Calculus I
MATH 446 - Advanced Calculus II

MATH 447 - Honors: Advanced Calculus I
MATH 448 - Honors: Advanced Calculus II

MATH 445 - Advanced Calculus I
MATH 443 - Complex Variables

MATH 455 - Abstract Algebra I
MATH 456 - Abstract Algebra II

MATH 457 - Honors: Abstract Algebra I
MATH 458 - Honors: Abstract Algebra II

MATH 471 - Numerical Analysis
MATH 472 - Numerical Algebra

MATH 471 - Numerical Analysis
MATH 475 - Industrial Mathematics

MATH 472 - Numerical Algebra
MATH 475 - Industrial Mathematics

MATH 431 - Differential Equations II
MATH 435 – PDEs

MATH 431 - Differential Equations II
MATH 453 - Matrix Algebra II

MATH 462 – Differential Geometry
MATH 467 – Honors: Topology

4. Select Additional courses to reach a total of 37 hours:

any 300-400 level mathematics courses (except MATH 300, MATH 307, MATH 309,
MATH 399, MATH 403, MATH 405, MATH 490, MATH 497 and MATH 498)

any mathematics graduate course numbered 510 or above

COSC 311 - Discrete Structures
COSC 312 – Algorithm Analysis and Automata

Formerly:

Major Requirements

The major consists of 37 semester hours of mathematics courses.

Complete:

MATH 231 - Differential Equations I
MATH 241 - Calculus III
MATH 251 - Matrix Algebra I
MATH 300 - Introduction to Abstract Mathematics
(or honors equivalents)

Select one sequence:

A. Probability and Stochastic Processes

MATH 423 - Probability

MATH 424 - Stochastic Processes

B. Probability and Statistics

MATH 423 - Probability

MATH 425 – Statistics

C. Advanced Calculus

MATH 445 - Advanced Calculus I

MATH 446 - Advanced Calculus II

D. Honors Advanced Calculus

MATH 447 - Honors: Advanced Calculus I

MATH 448 - Honors: Advanced Calculus II

E. Abstract Algebra

MATH 455 - Abstract Algebra I

MATH 456 - Abstract Algebra II

F. Honors Abstract Algebra

MATH 457 - Honors: Abstract Algebra I

MATH 458 - Honors: Abstract Algebra II

G. Numerical Analysis and Algebra

MATH 471 - Numerical Analysis

MATH 472 - Numerical Algebra

Select two courses:

any 300-400 level mathematics courses (except MATH 309, MATH 399, MATH 403,
MATH 405, MATH 490, MATH 497 and MATH 498)

COSC 311 - Discrete Structures

Select one course from each category:

A. Algebra

MATH 351 - Algebra I

MATH 455 - Abstract Algebra I

MATH 456 - Abstract Algebra II

MATH 457 - Honors: Abstract Algebra I

MATH 458 - Honors: Abstract Algebra II

B. Analysis

MATH 341 - Analysis I
MATH 445 - Advanced Calculus I
MATH 446 - Advanced Calculus II
MATH 447 - Honors: Advanced Calculus I
MATH 448 - Honors: Advanced Calculus II

C. Numerical Analysis

MATH 371 - Numerical Algorithms
COSC 370 - Introduction to Scientific Computing
MATH 471 - Numerical Analysis
MATH 472 - Numerical Algebra

D. Probability and Statistics

MATH 323 - Probability and Statistics
MATH 423 - Probability
MATH 424 - Stochastic Processes
MATH 425 - Statistics

REVISE MATHEMATICS MAJOR, BS (HONORS CONCENTRATION)

The Mathematics Department Honors Program offers highly talented students an accelerated curricular path that permits them to enroll in graduate-level mathematics courses as early as the junior year, providing excellent preparation for graduate school or competitive careers in mathematics or related areas. In mathematics, unlike many other fields, graduate students are generally supported by graduate assistantships or fellowships that pay tuition plus an annual living stipend. In recent years, 100% of math honors graduates who have applied for a math graduate assistantship have received at least one offer to a very good graduate school. Other graduates have continued to graduate school in computer science, economics, education, finance, law, medicine, and statistics.

In addition to a more rapid curriculum, the honors program offers enhanced academic advising and opportunities for students to interact with their peers through the Undergraduate Honors Seminar (MATH 497) in which honors students will discuss their theses and other undergraduate research projects.

For purposes of the mathematics honors requirements, the upper-division mathematics GPA (MGPA) consists of the GPA for all courses numbered MATH 300-475, except MATH 309 and MATH 399, and all graduate courses numbered MATH 510 or higher. If the student has completed more than 8 such courses then the MGPA is calculated using the 8 highest grades for those courses.

Any student may declare the Math Honors Concentration after having earned a grade of A- or better in MATH 300 or 307, as long as his/her MGPA is at least 3.4 and overall GPA is at least 3.25. The mathematics honors concentration must be declared prior to the last 60 hours of undergraduate enrollment (usually this means prior to the beginning of the junior year). The 60 hours requirement may be waived for students having a large number of transfer, AP, or other credits not earned at the University of Tennessee.

To continue as a mathematics major with honors concentration the student must:

- Maintain a 3.4 or higher cumulative MGPA. (Any mathematics honors student whose cumulative MGPA drops below 3.4 in a given semester may keep the honors concentration provided the cumulative MGPA returns to 3.4 after the subsequent semester and remains above 3.4 until graduation.)
- Attend at least three mathematics-related public lectures (such as the Mathematics Junior Colloquium or a departmental seminar) during each semester.
- Make adequate progress towards completing the mathematics honors thesis at least one full semester prior to graduation.

The requirements to graduate with honors in mathematics are the same as those for the mathematics major except the total requirement is 38 hours and includes:

- For Depth (3), complete 2 pairings, one of which must be an honors sequence (447-448, 457-458) or a math graduate sequence.
- Graduate with an overall GPA of at least 3.25 and an MGPA of at least 3.4.
- Complete at least 4 hours of MATH 497.
- Complete at least 3 hours of MATH 498 and submit a completed thesis at least 30 calendar days prior to the end of the final semester of enrollment.
- Complete a total of 24 hours of honors courses or mathematics courses numbered 510 or higher (except seminars), which may include courses used to fulfill other requirements to graduate with a mathematics honors concentration.

Formerly:

The Mathematics Department Honors Program offers highly talented students an accelerated curricular path that permits them to enroll in graduate-level mathematics courses as early as the junior year, making them highly competitive for graduate fellowships upon completion of a Bachelor of Science degree. In addition to a more rapid curriculum, the honors program offers enhanced academic advising and opportunities for students to interact with their peers through the Undergraduate Honors Seminar (MATH 497) in which honors students will discuss their theses and other undergraduate research projects.

For purposes of the mathematics honors requirements, the upper-division mathematics GPA (MGPA) consists of the GPA for MATH 300 (MATH 307), all mathematics courses used to fulfill the requirements for part (2) of the mathematics major, and mathematics graduate courses numbered 510 or higher.

Students who wish to participate in the honors concentration must meet the requirements for, and officially declare, a mathematics major with honors concentration. A student may declare this concentration after completing MATH 300 (or MATH 307) if his/her cumulative MGPA is at least 3.4. The mathematics honors concentration must be declared prior to the last 60 hours of enrollment (usually this means prior to the beginning of the junior year). The 60 hours requirement may be waived for students having a large number of transfer, AP, or other credits not earned at the University of Tennessee.

To continue as a mathematics major with honors concentration the student must:

- Maintain a 3.4 or higher cumulative MGPA. (Any mathematics honors student whose cumulative MGPA drops below 3.4 in a given semester may keep the honors concentration provided the cumulative MGPA returns to 3.4 after the subsequent semester and remains above 3.4 until graduation.)
- Attend at least three mathematics-related public lectures (such as the Mathematics Junior Colloquium or a departmental seminar) during each semester.
- Make adequate progress towards completing the mathematics honors thesis at least one full semester prior to graduation.

The requirements to graduate with honors in mathematics are the same as those for the mathematics major except in part (2) only six courses at the 300-400 level are required, and at least two 400-level two-semester sequences must be taken, at least one of which must be an honors sequence. Moreover, the following requirements must be met.

- Graduate with an overall GPA of at least 3.25 and an MGPA of at least 3.4.
- Complete at least 4 hours of MATH 497
- Complete at least 3 hours of MATH 498 and submit a completed thesis at least 30 calendar days prior to the end of the final semester of enrollment.
- Complete a total of 24 hours of honors courses or mathematics courses numbered 510 or higher (except seminars) for undergraduate credit, which may include courses used to fulfill other requirements to graduate with a mathematics honors concentration.

The honors category upon graduation is determined as follows: MGPA at least 3.4 – Honors; MGPA at least 3.6 – High Honors; MGPA at least 3.8 – Highest Honors.

DEPARTMENT OF MICROBIOLOGY

REVISE DEPARTMENT TEXT (VOLSTEACH HEADING, 3RD PARAGRAPH)

Students pursuing a B.S. degree in the Department of Microbiology are eligible to participate in the University's VolsTeach program (<http://volsteach.utk.edu/>), which permits students to simultaneously complete a major in mathematics or science and receive secondary education teaching licensure within the 4-year undergraduate degree program through completion of a VolsTeach minor. **By petition, students pursuing a VolsTeach minor may apply INPG 385 to the Microbiology B.S. degree.** For more information about VolsTeach, including advising associated with teaching licensure requirements, contact the Center for Enhancing Education in Mathematics and Science (100 Greve Hall).

REVISE BIOLOGICAL SCIENCES MAJOR—MICROBIOLOGY CONCENTRATION

Biological Sciences Major — Prerequisites to all Concentrations

A minimum grade of C must be earned in all prerequisites.

DEPARTMENT OF MODERN FOREIGN LANGUAGES AND LITERATURES

◆ ADD FIVE-YEAR BA/MA PROGRAM – FRENCH AND FRANCOPHONE STUDIES

Five-Year BA/MA Program

For qualified students, the Department of Modern Foreign Languages and Literatures offers a 5-year BA-MA program with a BA major in French & Francophone Studies and a non-thesis MA major in French. The primary component of the program is that a qualified student may take up to 9 hours of approved graduate courses for their senior undergraduate electives and have them count toward both the BA degree and the MA degree. Qualifications for admission to the program are:

- The student must have an overall cumulative GPA of 3.0 and a cumulative GPA of 3.5 in undergraduate French courses to be considered for admission to the program.
- Conditional and full admission of a student into this program must be approved by the Department of Modern Foreign Languages and Literatures and by the Graduate School.
- Conditional admission may be granted after completing 64 hours of the requirements for the BA in French & Francophone Studies, as specified by any Undergraduate Catalog in effect during that student's attendance at the University of Tennessee, Knoxville, provided that the Catalog has been in effect within six years of the date of graduation.
- Conditional admission must be obtained before taking a graduate course that is to be used to satisfy the requirements of both the BA degree and the MA degree.
- Full admission may be granted after completing 96 hours of the requirements for the BA in French & Francophone Studies, as specified by any Undergraduate Catalog in effect during that student's attendance at the University of Tennessee, Knoxville, provided that the Catalog has been in effect within six years of the date of graduation. A cumulative GPA of 3.5 in undergraduate French courses is required for full admission.
- Any course taken for graduate credit prior to satisfying all requirements for the BA degree must be approved by the department head (or designee) and by the Graduate School.
- A student will not be eligible for a graduate assistantship until the student has satisfied all of the requirements for the BA degree.

Rationale: Adding a five year BA-MA program in French will give students more options to complete these programs. This is following models offered at other institutions and recognizes the need for master's-level training in order to be competitive in a large variety of sectors of the job market. This new accelerated program option will only be available to highly qualified French majors, and its design follows established five year BS-MS programs offered at UTK in the College of Engineering. Impact on other units: No impact. Financial impact: No impact.

◆ ADD FIVE-YEAR BA/MA PROGRAM – GERMAN

Five-Year BA/MA Program

For qualified students, the Department of Modern Foreign Languages and Literatures offers a 5-year BA-MA program with a BA major in German and a non-thesis MA major in German. The primary component of the program is that a qualified student may take up to 9 hours of approved graduate courses for their senior undergraduate electives and have them count toward both the BA degree and the MA degree. Qualifications for admission to the program are:

- The student must have an overall cumulative GPA of 3.0 and a cumulative GPA of 3.5 in undergraduate German courses to be considered for admission to the program.
- Conditional and full admission of a student into this program must be approved by the Department of Modern Foreign Languages and Literatures and by the Graduate School.
- Conditional admission may be granted after completing 64 hours of the requirements for the BA in German, as specified by any Undergraduate Catalog in effect during that student's attendance at the University of Tennessee, Knoxville, provided that the Catalog has been in effect within six years of the date of graduation.
- Conditional admission must be obtained before taking a graduate course that is to be used to satisfy the requirements of both the BA degree and the MA degree.
- Full admission may be granted after completing 96 hours of the requirements for the BA in German, as specified by any Undergraduate Catalog in effect during that student's attendance at the University of Tennessee, Knoxville, provided that the Catalog has been in effect within six years of the date of graduation. A cumulative GPA of 3.5 in undergraduate German courses is required for full admission.
- Any course taken for graduate credit prior to satisfying all requirements for the BA degree must be approved by the department head (or designee) and by the Graduate School.
- A student will not be eligible for a graduate assistantship until the student has satisfied all of the requirements for the BA degree.

SCHOOL OF MUSIC

REVISE DEPARTMENTAL TEXT (ENSEMBLES HEADING)

Ensembles

Ensemble participation during each semester of residence is required of all **Bachelor of Music** students **studying-applied music except during student teaching**. Students are required to participate in ensembles appropriate to their specific degree program. Ensemble requirements vary among the concentrations and are listed in the School of Music Undergraduate Handbook, which is available **on the School of Music website**. ~~in the Music Office~~. Enrollment in all ensembles is by audition or consent of instructor.

REVISE MUSIC MAJOR, BA

III. Required Courses

F. Select 0-3 hours (Music Electives):

MUSC 301 - Junior Recital

MUSC 411 - Lecture Recital

MUSC 493 – Independent Study

MUTH 493 - Independent Study in Music Theory

MUCO 460 - Music Aesthetics

MUCO 493 - Independent Study

MUIN 493 – Independent Study

REVISE MUSIC MAJOR, BM – STRINGS CONCENTRATION

Third Year

MUTH 310	3
MUTH ~~320~~ 420	~~2~~ 3
MUCO 380 *	3
Music Performance (300 level) (3,3)	6
MUEN 370 (1,1)	2
MUED 310	3
³ Social Sciences *	6
⁴ Communicating Orally *	3
MUSC 200 (0,0)	0
MUSC 301	0

Fourth Year

Music Performance (400 level) (3,3)	6
MUIN 340 , MUIN 350	6
MUEN 370 (1,1)	2
⁵ Quantitative Reasoning *	6
MUSC 200 (0,0)	0
MUSC 401	0
¹ Natural Sciences *	3
Electives	~~8~~ 7

◆ ADD MUSIC MINOR – MUSIC COMPOSITION

Minor Requirements

The minor concentration in Music Composition consists of **16 hours** in courses numbered 200 or above.

Prerequisites (8 hours)

Complete:

MUTH 110 - Theory I

MUTH 120 - Theory II

MUTH 130 - Ear Training I

MUTH 140 - Ear Training II

Required Courses (16 hours)

Complete:

MUPF 294 – Composition (2)

MUPF 295 – Composition (2)

MUPF 394, 395 or 396 – Composition (2,2)

MUTH 210 - Theory III (3)

MUTH 220 - Theory IV (3)

MUTH 230 - Advanced Ear Training III (1)

MUTH 240 - Advanced Ear Training IV (1)

DEPARTMENT OF PHILOSOPHY

REVISE PHILOSOPHY MAJOR, BA

College Requirements

Arts and Sciences

Corequisites

Complete:

PHIL 135 – Formal Logic

Major Requirements

The major consists of **30 27 hours** of courses numbered 200 or above, including at most one of PHIL 374, PHIL 376, or PHIL 379. **Only 3 hours of philosophy electives may be taken at the 200 level. At least 6 hours must be taken at the 400 level or above; PHIL 407 may not be used to satisfy this 6-hour requirement.** Majors are required to discuss their programs with a member of the philosophy faculty.

I. Complete:

PHIL 235 – Formal Logic

II. ~~I.~~ Select one course from each area:

A. Ancient Philosophy

PHIL 320 - Ancient Western Philosophy (normally)

PHIL 322 - Medieval Philosophy

PHIL 327 - Honors: Ancient Western Philosophy

B. Modern Philosophy

PHIL 324 - 17th- and 18th-Century Philosophy (normally)

PHIL 326 - 19th- and 20th-Century Philosophy

PHIL 328 - Honors: 17th- and 18th-Century Philosophy

C. Ethics

PHIL 340 - Ethical Theory

PHIL 347 - Honors: Ethical Theory

D. Epistemology, Metaphysics, Logic

PHIL 360 - Philosophy of Science

PHIL 370 - Philosophy of Religion

PHIL 371 - Epistemology

PHIL 372 - Metaphysics

PHIL 373 - Philosophy of Mind

PHIL 435 - Intermediate Formal Logic

III. Select five additional philosophy courses

See Major Requirements heading for restrictions

~~II. Select one additional course:~~

~~200-level or above philosophy courses~~

~~III. Select two additional courses:~~

~~300-level or above philosophy courses~~

~~IV. Select two additional courses:~~

~~400-level or above philosophy courses~~

DEPARTMENT OF PHILOSOPHY

REVISE PHILOSOPHY MAJOR, BA

College Requirements

Arts and Sciences

Corequisites**Complete:**

PHIL 135 – Formal Logic

Major Requirements

The major consists of **30 27 hours** of courses numbered 200 or above, including at most one of PHIL 374, PHIL 376, or PHIL 379. **Only 3 hours of philosophy electives may be taken at the 200 level. At least 6 hours must be taken at the 400 level or above; PHIL 407 may not be used to satisfy this 6-hour requirement.** Majors are required to discuss their programs with a member of the philosophy faculty.

I. Complete:

PHIL 235 – Formal Logic

II. I. Select one course from each area:**A. Ancient Philosophy**

PHIL 320 - Ancient Western Philosophy (normally)

PHIL 322 - Medieval Philosophy

PHIL 327 - Honors: Ancient Western Philosophy

B. Modern Philosophy

PHIL 324 - 17th- and 18th-Century Philosophy (normally)

PHIL 326 - 19th- and 20th-Century Philosophy

PHIL 328 - Honors: 17th- and 18th-Century Philosophy

C. Ethics

PHIL 340 - Ethical Theory

PHIL 347 - Honors: Ethical Theory

D. Epistemology, Metaphysics, Logic

PHIL 360 - Philosophy of Science

PHIL 370 - Philosophy of Religion

PHIL 371 - Epistemology

PHIL 372 - Metaphysics

PHIL 373 - Philosophy of Mind

PHIL 435 - Intermediate Formal Logic

III. Select five additional philosophy courses:

See Major Requirements heading for restrictions

II. Select one additional course:

200-level or above philosophy courses

III. Select two additional courses:

300-level or above philosophy courses

IV. Select two additional courses:

400-level or above philosophy courses

REVISE PHILOSOPHY MAJOR, BA – HONORS CONCENTRATION**College Requirements**

Arts and Sciences

Corequisite**Complete:**

PHIL 135 – Formal Logic

Concentration Requirements

The honors concentration requires a 3.25 overall GPA with a 3.5 GPA in philosophy coursework. **It consists of 31 hours of courses numbered 200 or above, including at most one of PHIL 374, PHIL 376, or PHIL 379. Two honors philosophy courses, two honors or honors-by-contract philosophy courses, and additionally, one hour of PHIL 407 with a grade of B or higher are required. Only 3 hours of philosophy electives may be taken at the 200 level. Apart from the one required hour of PHIL 407, at least 6 hours must be taken at the 400 level or above. Majors are required to discuss their programs with a member of the philosophy faculty.**

I. Complete:

PHIL 235 – Formal Logic

II. I. Select one course from each area (at least two honors courses):**A. Ancient Philosophy**

PHIL 320 - Ancient Western Philosophy

PHIL 327 - Honors: Ancient Western Philosophy

B. Modern Philosophy

PHIL 324 - 17th- and 18th-Century Philosophy

PHIL 328 - Honors: 17th- and 18th-Century Philosophy

C. Ethics

PHIL 340 - Ethical Theory

PHIL 347 - Honors: Ethical Theory

D. Epistemology, Metaphysics, Logic

PHIL 360 - Philosophy of Science

PHIL 370 - Philosophy of Religion

PHIL 371 - Epistemology

PHIL 372 - Metaphysics

PHIL 373 - Philosophy of Mind

PHIL 435 - Intermediate Formal Logic

III. Select five additional philosophy courses:

See Concentration Requirements heading for restrictions

II. Complete A, B, and C below (at least two honors courses):**A. Select one additional course:**

200-level or above philosophy courses

B. Select two additional courses:

300-level or above philosophy courses

C. Select two additional courses:

400-level or above philosophy courses

IV. III. Complete at least one hour with a grade of B or better (no more than 1 hour may be applied toward the major) (grade of B or better):

PHIL 407 - Honors: Thesis

◆ ADD PHILOSOPHY MAJOR, BA – LEGAL AND POLITICAL PHILOSOPHY CONCENTRATION**College Requirements**

Arts and Sciences

Concentration Requirements

The philosophy major with concentration in legal and political philosophy consists of **30 hours** of courses numbered 200 or above, including at most one of PHIL 374, PHIL 376, or PHIL 379. Only 3 hours of philosophy electives may be taken at the 200 level. At least 6 hours must be taken at the 400 level or above; PHIL 407 may not be used to satisfy this 6-hour requirement. Majors are required to discuss their programs with a member of the philosophy faculty.

I. Complete:

PHIL 235 - Formal Logic

PHIL 391 - Social and Political Philosophy

PHIL 392 - Philosophy of Law

II. Select one course from each area:**A. Ancient Philosophy**

PHIL 320 - Ancient Western Philosophy (normally)

PHIL 322 - Medieval Philosophy

PHIL 327 - Honors: Ancient Western Philosophy

B. Modern Philosophy

PHIL 324 - 17th- and 18th-Century Philosophy (normally)
PHIL 326 - 19th- and 20th-Century Philosophy
PHIL 328 - Honors: 17th- and 18th-Century Philosophy

C. Ethics

PHIL 340 - Ethical Theory
PHIL 347 - Honors: Ethical Theory

III. Select three courses, including one course from each area:**A. Epistemology, Metaphysics, Logic**

PHIL 360 - Philosophy of Science
PHIL 370 - Philosophy of Religion
PHIL 371 - Epistemology
PHIL 372 - Metaphysics
PHIL 373 - Philosophy of Mind
PHIL 435 - Intermediate Formal Logic

B. Value Foundations: Policy, Politics, Law

PHIL 345 - Bioethics
PHIL 346 - Environmental Ethics
PHIL 348 – Honors: Environmental Ethics
PHIL 390 - Philosophical Foundations of Democracy
PHIL 441 - Global Justice and Human Rights

IV. Select one additional philosophy course:

See Concentration Requirements heading for restrictions

 ADD PHILOSOPHY MAJOR, BA – HONORS LEGAL AND POLITICAL PHILOSOPHY CONCENTRATION**College Requirements**

Arts and Sciences

Concentration Requirements

The honors legal and political philosophy concentration requires a 3.25 overall GPA with a 3.5 GPA in philosophy coursework. It consists of **31 hours** of courses numbered 200 or above, including at most one of PHIL 374, PHIL 376, or PHIL 379. Four honors or honors-by-contract philosophy courses and additionally, one hour of PHIL 407 with a grade of B or higher are required. Only 3 hours of philosophy electives may be taken at the 200 level. Apart from the one required hour of PHIL 407, at least 6 hours must be taken at the 400 level or above. Majors are required to discuss their programs with a member of the philosophy faculty.

I. Complete A, B, and C (including four honors courses or honors-by-contract courses):**A. Complete:**

PHIL 235 - Formal Logic
PHIL 391 - Social and Political Philosophy
PHIL 392 - Philosophy of Law

B. Select one course from each area:**1. Ancient Philosophy**

PHIL 320 - Ancient Western Philosophy
PHIL 327 - Honors: Ancient Western Philosophy

2. Modern Philosophy

PHIL 324 - 17th- and 18th-Century Philosophy
PHIL 328 - Honors: 17th- and 18th-Century Philosophy

3. Ethics

PHIL 340 - Ethical Theory
PHIL 347 - Honors: Ethical Theory

C. Select three courses, including one course from each area:**1. Epistemology, Metaphysics, Logic**

PHIL 360 - Philosophy of Science
PHIL 370 - Philosophy of Religion
PHIL 371 - Epistemology
PHIL 372 - Metaphysics

PHIL 373 - Philosophy of Mind
PHIL 435 - Intermediate Formal Logic

2. Value Foundations: Policy, Politics, Law

PHIL 345 - Bioethics
PHIL 346 - Environmental Ethics
PHIL 348 – Honors: Environmental Ethics
PHIL 390 - Philosophical Foundations of Democracy
PHIL 441 - Global Justice and Human Rights

II. Select one additional philosophy course:

See Concentration Requirements heading for restrictions

III. Complete one hour with a grade of B or better (no more than 1 hour may be applied toward the major):

PHIL 407 - Honors: Thesis

◆ **ADD PHILOSOPHY MAJOR, BA – PHILOSOPHY OF SCIENCE AND MEDICINE CONCENTRATION**

College Requirements

Arts and Sciences

Concentration Requirements

The philosophy major with concentration in philosophy of science and medicine consists of **30 hours** of courses numbered 200 or above, including at most one of Philosophy 374, 376, or 379. Only 3 hours of philosophy electives may be taken at the 200 level. At least 6 hours must be taken at the 400 level or above; PHIL 407 may not be used to satisfy this 6-hour requirement. Majors are required to discuss their programs with a member of the philosophy faculty.

I. Complete:

PHIL 235 - Formal Logic
PHIL 345 - Bioethics
PHIL 360 - Philosophy of Science

II. Select one course from each area:

A. Ancient Philosophy

PHIL 320 - Ancient Western Philosophy (normally)
PHIL 322 - Medieval Philosophy
PHIL 327 - Honors: Ancient Western Philosophy

B. Modern Philosophy

PHIL 324 - 17th- and 18th-Century Philosophy (normally)
PHIL 326 - 19th- and 20th-Century Philosophy
PHIL 328 - Honors: 17th- and 18th-Century Philosophy

C. Ethics

PHIL 340 - Ethical Theory
PHIL 347 - Honors: Ethical Theory

III. Select three courses:

PHIL 346 - Environmental Ethics
PHIL 348 – Honors: Environmental Ethics
PHIL 370 - Philosophy of Religion
PHIL 371 - Epistemology
PHIL 372 - Metaphysics
PHIL 373 - Philosophy of Mind
PHIL 435 - Intermediate Formal Logic
PHIL 460 - Topics in Philosophy of Science

IV. Select one additional philosophy course:

See Concentration Requirements heading for restrictions

◆ ADD PHILOSOPHY MAJOR, BA – HONORS PHILOSOPHY OF SCIENCE AND MEDICINE CONCENTRATION

College Requirements

Arts and Sciences

Concentration Requirements

The honors philosophy of science and medicine concentration requires a 3.25 overall GPA with a 3.5 GPA in philosophy coursework. It consists of **31 hours** of courses numbered 200 or above, including at most one of PHIL 374, PHIL 376, or PHIL 379. Four honors or honors-by-contract philosophy courses and additionally, one hour of PHIL 407 with a grade of B or higher are required. Only 3 hours of philosophy electives may be taken at the 200 level. Apart from the one required hour of PHIL 407, at least 6 hours must be taken at the 400 level or above. Majors are required to discuss their programs with a member of the philosophy faculty.

I. Complete A, B, and C (including four honors courses or honors-by-contract courses):

A. Complete:

PHIL 235 - Formal Logic
PHIL 345 - Bioethics
PHIL 360 - Philosophy of Science

B. Select one course from each area:

1. Ancient Philosophy

PHIL 320 - Ancient Western Philosophy
PHIL 327 - Honors: Ancient Western Philosophy

2. Modern Philosophy

PHIL 324 - 17th- and 18th-Century Philosophy
PHIL 328 - Honors: 17th- and 18th-Century Philosophy

3. Ethics

PHIL 340 - Ethical Theory
PHIL 347 - Honors: Ethical Theory

C. Select three courses:

PHIL 346 - Environmental Ethics
PHIL 348 – Honors: Environmental Ethics
PHIL 370 - Philosophy of Religion
PHIL 371 - Epistemology
PHIL 372 - Metaphysics
PHIL 373 - Philosophy of Mind
PHIL 435 - Intermediate Formal Logic
PHIL 460 - Topics in Philosophy of Science

II. Select one additional philosophy course:

See Concentration Requirements heading for restrictions

III. Complete one hour with a grade of B or better (no more than 1 hour may be applied toward the major):

PHIL 407 - Honors: Thesis

DEPARTMENT OF PHYSICS AND ASTRONOMY

REVISE PHYSICS MAJOR, BA – GENERAL CONCENTRATION (LAST SECTION)

General Concentration (12 hours)

Select 12 hours:

300-400 level physics or 200-400 level astronomy courses

or

coordinated coursework in an area of the student's special interest to be chosen by the student in consultation with a departmental advisor.

DEPARTMENT OF POLITICAL SCIENCE

REVISE POLITICAL SCIENCE MAJOR, BA

College Requirements

Arts and Sciences

Prerequisites**Select one course:**

POLS 101 - United States Government and Politics

POLS 107 - Honors: United States Government and Politics

Complete:

POLS 102 - Introduction to Political Science

Major Requirements

The major consists of 24 hours of courses numbered 300 or above.

Select at least one course—U.S. Government and Politics/Public Administration:

POLS 311 - Contemporary Issues in American Public Policy

POLS 312 - Popular Culture and American Politics

POLS 315 - Tennessee Government and Politics

POLS 320 - State Government and Politics

POLS 321 - Urban Politics and Process

POLS 330 - Law in American Society

POLS 340 - Introduction to Public Administration and Public Policy

POLS 341 - Judicial Process and Policymaking

~~POLS 401 - Political Analysis~~

POLS 410 - Special Topics in Political Science

POLS 411 - Presidency

POLS 412 - Congress

POLS 420 - Political Attitudes and Behavior

POLS 421 - Political Parties and Interest Groups

~~POLS 422 - Political Campaigns and Elections~~

POLS 425 - Media and Politics

POLS 430 - United States Constitutional Law: Sources of Power and Restraint

POLS 431 - United States Constitutional Law: Civil Rights and Liberties

POLS 435 - Criminal Law and Procedure

POLS 440 - Public Management and Human Resources

POLS 441 - Public Budgeting

POLS 442 - Administrative Law and Regulatory Policymaking

POLS 445 - Administration of Justice

Select at least one course—Comparative Government and Politics:

~~POLS 349 - Introduction to Comparative Politics~~

POLS 350 - Political Change in Developing Areas

~~POLS 361 - Politics in Western Democracies~~

~~POLS 364 - Introduction to Comparative Politics~~

POLS 451 - Ethnic Conflict in Foreign Countries

POLS 452 - The Politics of Sub-Saharan Africa

~~POLS 453 - Western European Politics~~

POLS 454 - Government and Politics of China and Japan

POLS 456 - Latin American Government and Politics

POLS 459 - Government and Politics of ~~Post-Communist Countries Russia and Eastern Europe~~

POLS 461 - ~~Comparative Public Policy Policy-Making in Democracies~~

POLS 463 - Contemporary Middle East Politics

Select at least one course—International Relations:

POLS 365 - Introduction to International Relations

POLS 366 - United States Foreign Policy Process

POLS 370 - Contemporary International Problems

POLS 470 - International Law

POLS 471 - International Political Economy

~~POLS 472 - Conflict Processes~~

POLS 473 - Negotiation, Bargaining, and Diplomacy

POLS 474 - International Organization

POLS 479 – Regional Analysis of International Politics**Select at least one course—Political Theory:**

POLS 300 - Introduction to Political Philosophy
POLS 374 - American Political Thought
POLS 475 - Ancient and Medieval Political Thought
POLS 476 - Modern Political Thought

Select four courses:

any 300-400 level political science courses ~~(from lists above)~~

REVISE POLITICAL SCIENCE MAJOR, BA – HONORS CONCENTRATION**College Requirements**

Arts and Sciences

Prerequisites**Select one course:**

POLS 101 - United States Government and Politics
POLS 107 - Honors: United States Government and Politics

Complete:

POLS 102 - Introduction to Political Science

Honors Concentration

The department's Honors Program emphasizes the ideals of a superior liberal arts education and gives students a more rigorous and intensive preparation in political science. The honors concentration consists of twenty-seven (27) upper division hours in political science, including completion of Political Science 401, Political Science 487, and Political Science 488. These 27 hours must include at least one course in each of the four areas of the discipline. To graduate with honors in political science, the student must have a minimum GPA of 3.3 in political science, and a minimum cumulative GPA of 3.25.

The Honors Program encourages fruitful contacts between individual students and faculty members, and student involvement in planning and developing the program. As a senior, each student takes Political Science 487 and Political Science 488, investigates a topic of his or her choice, and presents the results in an Honors Thesis. This project develops with the assistance and supervision of the Honors Director or another member of the Political Science faculty. Students are encouraged to take Political Science 401 in advance of Political Science 487 and 488, because 401 will help students better to design and undertake thesis research.

The honors concentration encourages highly motivated students to obtain a superior liberal education and more rigorous preparation in the discipline. Admission is selective. The honors concentration is normally a two-year program. The concentration consists of 27 hours of courses numbered 300 or above. If POLS 387 and POLS 388 are used to satisfy a requirement in one of the discipline areas below, students may substitute upper-level political science courses for the hours. To graduate with honors in political science, the student must have a minimum GPA of 3.3 in political science, and a minimum cumulative GPA of 3.25.

Select at least one course—U.S. Government and Politics/Public Administration:

POLS 311 - Contemporary Issues in American Public Policy
POLS 312 - Popular Culture and American Politics
POLS 315 - Tennessee Government and Politics
POLS 320 - State Government and Politics
POLS 321 - Urban Politics and Process
POLS 330 - Law in American Society
POLS 340 - Introduction to Public Administration and Public Policy
POLS 341 - Judicial Process and Policymaking
~~POLS 401 - Political Analysis~~
POLS 410 - Special Topics in Political Science
POLS 411 - Presidency
POLS 412 - Congress
POLS 420 - Political Attitudes and Behavior
POLS 421 - Political Parties and Interest Groups
POLS 422 – Political Campaigns and Elections
POLS 425 - Media and Politics
POLS 430 - United States Constitutional Law: Sources of Power and Restraint
POLS 431 - United States Constitutional Law: Civil Rights and Liberties
POLS 435 - Criminal Law and Procedure
POLS 440 - Public Management and Human Resources

POLS 441 - Public Budgeting
POLS 442 - Administrative Law and Regulatory Policymaking
POLS 445 - Administration of Justice

Select at least one course—Comparative Government and Politics:

~~POLS 349 – Introduction to Comparative Politics~~
POLS 350 - Political Change in Developing Areas
~~POLS 361 – Politics in Western Democracies~~
~~POLS 364 – Introduction to Comparative Politics~~
POLS 451 - Ethnic Conflict in Foreign Countries
POLS 452 - The Politics of Sub-Saharan Africa
~~POLS 453 – Western European Politics~~
POLS 454 - Government and Politics of China and Japan
POLS 456 - Latin American Government and Politics
POLS 459 - Government and Politics of ~~Post-Communist Countries Russia and Eastern Europe~~
POLS 461 - ~~Comparative Public Policy Policy-Making in Democracies~~
POLS 463 - Contemporary Middle East Politics

Select at least one course—International Relations:

POLS 365 - Introduction to International Relations
POLS 366 - United States Foreign Policy Process
POLS 370 - Contemporary International Problems
POLS 470 - International Law
POLS 471 - International Political Economy
POLS 473 - Negotiation, Bargaining, and Diplomacy
POLS 474 - International Organization

Select at least one course—Political Theory:

POLS 300 - Introduction to Political Philosophy
POLS 374 - American Political Thought
POLS 475 - Ancient and Medieval Political Thought
POLS 476 - Modern Political Thought

Complete:

~~POLS 387 – Junior Honors Seminar~~
~~POLS 388 – Junior Honors Seminar~~
~~POLS 401 – Research Methods~~
POLS 487 - Senior Honors: Thesis and Seminar
POLS 488 - Senior Honors: Thesis and Seminar

Select two one courses:

any 300-400 level POLS course

REVISE POLITICAL SCIENCE MAJOR, BA—PUBLIC ADMINISTRATION CONCENTRATION**College Requirements**

Arts and Sciences

Prerequisites**Select one course:**

POLS 101 - United States Government and Politics
POLS 107 - Honors: United States Government and Politics

Complete:

ECON 201 - Introductory Economics: A Survey Course
POLS 102 - Introduction to Political Science

Public Administration Concentration

Students majoring in political science who wish to prepare for a career in public service may select the concentration in public administration. The concentration consists of **27 hours** of course work in political science, economics, and accounting.

Select at least four courses:

ECON ~~471~~ 371 - Public Finance: Expenditure Analysis
ECON 472 - Public Finance: Taxation and Fiscal Federalism (Note: ECON 311 and STAT 201 are required prerequisites.)
POLS 340 - Introduction to Public Administration and Public Policy
POLS 401 - ~~Research Methods~~ Political Analysis
POLS 440 - Public Management and Human Resources

POLS 441 - Public Budgeting

POLS 442 - Administrative Law and Regulatory Policymaking

Select at least one course—Comparative Government and Politics:

~~POLS 349 - Introduction to Comparative Politics~~

POLS 350 - Political Change in Developing Areas

~~POLS 361 - Politics in Western Democracies~~

~~POLS 364 - Introduction to Comparative Politics~~

POLS 451 - Ethnic Conflict in Foreign Countries

POLS 452 - The Politics of Sub-Saharan Africa

~~POLS 453 - Western European Politics~~

POLS 454 - Government and Politics of China and Japan

POLS 456 - Latin American Government and Politics

POLS 459 - Government and Politics of ~~Post-Communist Countries Russia and Eastern Europe~~

POLS 461 - ~~Comparative Public Policy Policy-Making in Democracies~~

POLS 463 - Contemporary Middle East Politics

Select at least one course—International Relations:

POLS 365 - Introduction to International Relations

POLS 366 - United States Foreign Policy Process

POLS 370 - Contemporary International Problems

POLS 470 - International Law

POLS 471 - International Political Economy

~~POLS 472 - Conflict Processes~~

POLS 473 - Negotiation, Bargaining, and Diplomacy

POLS 474 - International Organization

~~POLS 479 - Regional Analysis of International Politics~~

Select at least one course—Political Theory:

POLS 300 - Introduction to Political Philosophy

POLS 374 - American Political Thought

POLS 475 - Ancient and Medieval Political Thought

POLS 476 - Modern Political Thought

Select at least one course—U.S. Government and Politics/Public Administration

POLS 311 - Contemporary Issues in American Public Policy

POLS 312 - Popular Culture and American Politics

POLS 315 - Tennessee Government and Politics

POLS 320 - State Government and Politics

POLS 321 - Urban Politics and Process

POLS 330 - Law in American Society

POLS 341 - Judicial Process and Policymaking

POLS 410 - Special Topics in Political Science

POLS 411 - Presidency

POLS 412 - Congress

POLS 420 - Political Attitudes and Behavior

POLS 421 - Political Parties and Interest Groups

~~POLS 422 - Political Campaigns and Elections~~

POLS 425 - Media and Politics

POLS 430 - United States Constitutional Law: Sources of Power and Restraint

POLS 431 - United States Constitutional Law: Civil Rights and Liberties

POLS 445 - Administration of Justice

Select one course:

~~any 300-400 level political science courses~~

PRE-PROFESSIONAL PROGRAMS

◆ DROP PRE-PROFESSIONAL PROGRAMS MAJOR—NUCLEAR MEDICINE TECHNOLOGY CONCENTRATION

DEPARTMENT OF RELIGIOUS STUDIES

REVISE RELIGIOUS STUDIES MAJOR

College Requirements

Arts and Sciences

Major RequirementsMajors will be required to take a total of **30 hours** of courses.**I. Complete:**

REST 499 - Advanced Seminar in the Study of Religion

II. Select one course from each of the following areas (12 hours):**A. Europe and the Middle East**

REST 311 - Introduction to the Hebrew Bible

REST 312 - ~~Introduction to Early Judaism~~ ~~Religious Aspects of Biblical and Classical Literature~~

REST 321 - New Testament and Early Christian Origins

REST 322 - Christianity in Late Antiquity

REST 332 - Classical Islam

REST 333 - Islam in the Modern World

REST 381 - Introduction to Judaism

REST 385 - Contemporary Jewish Thinkers

REST 386 - Voices of the Holocaust

B. North America and Africa

REST 351 - Religion in the United States

REST 352 - African-American Religion in United States

REST 353 - ~~Religion, Race, and Ethnicity in North America~~ ~~Topics in African-American Religion~~

REST 355 - Topics in North American Religion

REST 373 - ~~Religions of Africa~~ ~~African Religions~~**C. South, Southeast, and East Asia**REST 374 - ~~Introduction to Hinduism~~ ~~Philosophy and Religion in India~~~~REST 375 – Theravada Buddhism~~REST 376 - ~~Introduction to Buddhism~~ ~~Buddhist Philosophy and Religion~~~~REST 378 – Theravada Buddhism~~REST 379 - ~~Religions and Philosophies of China~~ ~~Religion and Philosophy in China~~

REST 380 - East Asian Buddhism in Asia and North America

REST 382 - Religion and Culture in Southeast Asia

REST 383 - ~~Religions of Japan~~ ~~Religion in Japan~~

REST 384 - Zen Buddhism

D. Methods and Issues in Religious Studies

REST 300 - Ways of Understanding Religion

~~REST 301 – Religious Myth, Symbol, and Ritual~~

REST 302 - Anthropology of Religion

REST 305 - Contemporary Religious Thought and Practice

~~REST 313 – Religious Aspects of Modern Literature~~

REST 320 - Women and Religion

REST 342 - Religious Ethics

III. Select 15 hours:

any remaining Religious Studies courses (at least 3 hours must be at the 400-level, and no more than 6 hours may be taken at the 200-level)

REVISE RELIGIOUS STUDIES MAJOR—HONORS CONCENTRATION

The honors concentration consists of 30 hours. Students must have an overall GPA of 3.25 to be accepted to the honors concentration. To graduate with honors the student must maintain an overall GPA of at least 3.25 and pass 407 and 408 with at least a 3.3 in each class. Students interested in the honors concentration should consult the department's honors coordinator.

I. Complete:

REST 407 - Honors: Senior Thesis I

REST 408 - Honors: Senior Thesis II

REST 499 - Advanced Seminar in the Study of Religion

II. Select one course from each of the following areas (12 hours):**A. Europe and the Middle East**

REST 311 - Introduction to the Hebrew Bible
REST 312 - ~~Introduction to Early Judaism~~ ~~Religious Aspects of Biblical and Classical Literature~~
REST 321 - New Testament and Early Christian Origins
REST 322 - Christianity in Late Antiquity
REST 332 - Classical Islam
REST 333 - Islam in the Modern World
REST 381 - Introduction to Judaism
REST 385 - Contemporary Jewish Thinkers
REST 386 - Voices of the Holocaust

B. North America and Africa

REST 351 - Religion in the United States
REST 352 - African-American Religion in United States
REST 353 - ~~Religion, Race, and Ethnicity in North America~~ ~~Topics in African-American Religion~~
REST 355 - Topics in North American Religion
REST 373 - ~~Religions of Africa~~ ~~African Religions~~

C. South, Southeast, and East Asia

REST 374 - ~~Introduction to Hinduism~~ ~~Philosophy and Religion in India~~
~~REST 375 - Theravada Buddhism~~
REST 376 - ~~Introduction to Buddhism~~ ~~Buddhist Philosophy and Religion~~
~~REST 378 - Theravada Buddhism~~
REST 379 - ~~Religions and Philosophies of China~~ ~~Religion and Philosophy in China~~
REST 380 - East Asian Buddhism in Asia and North America
REST 382 - Religion and Culture in Southeast Asia
REST 383 - ~~Religions of Japan~~ ~~Religion in Japan~~
REST 384 - Zen Buddhism

D. Methods and Issues in Religious Studies

REST 300 - Ways of Understanding Religion
~~REST 301 - Religious Myth, Symbol, and Ritual~~
REST 302 - Anthropology of Religion
REST 305 - Contemporary Religious Thought and Practice
~~REST 313 - Religious Aspects of Modern Literature~~
REST 320 - Women and Religion
REST 342 - Religious Ethics

III. Select 6 additional hours:

any religious studies courses numbered 300 or above (completed through honors-by-contract)

IV. Select 3 additional hours:

any religious studies courses numbered 300 or above

DEPARTMENT OF SOCIOLOGY**REVISE SOCIOLOGY MAJOR**

Before applying to the Sociology Department for admission to the major, a student must complete either SOCI 110, SOCI 120, or ~~SOCI 127 (SOCI 117 or SOCI 127)~~ with a grade of C or above, and either MATH 115 ~~or~~ STAT 201, ~~or~~ STAT 207. Upon granting admission to the major, the Department will assign the student an academic advisor who will help the student plan a program of study for the major. Students may also declare a concentration in either ~~Criminology and Criminal Justice or Environmental Issues, and in Honors, criminal justice or environmental issues and globalization~~, each of which features attendant requirements. Ideally, students will take SOCI 321 and SOCI 331 no later than their junior year.

College Requirements

Arts and Sciences

Sociology--Prerequisites (6 hours)**Select one course (grade of C or better):**

SOCI 110 - ~~Social Problems and Social Justice~~ ~~Social Justice and Social Change~~
~~SOCI 117 - Honors: Social Justice and Social Change~~
SOCI 120 - ~~Introduction to General~~ Sociology
SOCI 127 - Honors: ~~Introduction to General~~ Sociology

Select one course:

MATH 115 - Statistical Reasoning
STAT 201 - Introduction to Statistics
STAT 207 - Honors: Introduction to Statistics

Sociology Major (30 27 hours)

The major consists of 30 27 upper-division hours in sociology.

Complete:

SOCI 321 - Sociological Theory
SOCI 331 - Sociological Research

Select six five courses:

300-400 level sociology courses

Select two courses:

400-level sociology courses

◆ ADD SOCIOLOGY MAJOR, BA, HONORS CONCENTRATION

The Honors concentration in Sociology requires a 3.3 overall GPA and a 3.5 GPA in Sociology coursework, with no grade of less than B+ in any Sociology course. Requirements are SOCI 127 (or approval of Director of Undergraduate Studies); SOCI 431, either one Honors-by-Contract course in Sociology or one graduate level course in Sociology; an Honors Thesis in Sociology (SOCI 457); and all other requirements for the major. The Honors Thesis may be original research or an in-depth theoretical exploration of an area within Sociology, to be decided with the faculty member who agrees to direct the thesis. Students may obtain the Honors concentration in addition to other concentrations available in Sociology. Formal application must be made to the Director of Undergraduate Studies for admission to the Honors concentration.

◆ DROP SOCIOLOGY MAJOR—CRIMINAL JUSTICE CONCENTRATION**◆ ADD SOCIOLOGY MAJOR, BA—CRIMINOLOGY AND CRIMINAL JUSTICE CONCENTRATION**

Before applying to the Sociology Department for admission to the major, a student must complete either SOCI 110, SOCI 120, or SOCI 127 with a grade of C or above, and either MATH 115, STAT 201, or STAT 207. Upon granting admission to the major, the Department will assign the student an academic advisor who will help the student plan a program of study for the major. Students may also declare a concentration in either Criminology and Criminal Justice or Environmental Issues, and in Honors, each of which features attendant requirements. Ideally, students will take SOCI 321 and SOCI 331 no later than their junior year.

College Requirements

Arts and Sciences

Sociology—Prerequisites (6 hours)**Select one course (grade of C or better):**

SOCI 110 – Social Problems and Social Justice
SOCI 120 – Introduction to Sociology
SOCI 127 – Honors: Introduction to Sociology

Select one course:

MATH 115 – Statistical Reasoning
STAT 201 – Introduction to Statistics
STAT 207 – Honors: Introduction to Statistics

Sociology—Major (30 hours)

The major consists of 30 upper-division hours in Sociology.

Complete:

SOCI 321 – Sociological Theory
SOCI 331 – Sociological Research

Criminology and Criminal Justice Concentration**Complete:**

SOCI 350 – Criminology
SOCI 451 – Criminal Justice

Select two courses:

- SOCI 455 – Law and Society
- SOCI 449 – Juvenile Delinquency and Social Policy
- SOCI 452 – Race, Ethnicity, Crime, and Justice
- SOCI 453 – Gender and Crime
- SOCI 456 – Punishment and Society

Select four courses (in consultation with advisor):

- 300-400 level sociology courses

◆ DROP SOCIOLOGY MAJOR, BA—ENVIRONMENTAL ISSUES AND GLOBALIZATION CONCENTRATIONS**◆ ADD SOCIOLOGY MAJOR, BA—ENVIRONMENTAL ISSUES CONCENTRATION**

Before applying to the Sociology Department for admission to the major, a student must complete either SOCI 110, SOCI 120, or SOCI 127 with a grade of C or above, and either MATH 115, STAT 201, or STAT 207. Upon granting admission to the major, the Department will assign the student an academic advisor who will help the student plan a program of study for the major. Students may also declare a concentration in either Criminology and Criminal Justice or Environmental Issues, and in Honors, each of which features attendant requirements. Ideally, students will take SOCI 321 and SOCI 331 no later than their junior year.

College Requirements

Arts and Sciences

Sociology—Prerequisites (6 hours)**Select one course (grade of C or better):**

- SOCI 110 – Social Problems and Social Justice
- SOCI 120 – Introduction to Sociology
- SOCI 127 – Honors: Introduction to Sociology

Select one course:

- MATH 115 – Statistical Reasoning
- STAT 201 – Introduction to Statistics
- STAT 207 – Honors: Introduction to Statistics

Sociology—Major (30 hours)

The major consists of **30 upper-division hours** in Sociology.

Complete:

- SOCI 321 – Sociological Theory
- SOCI 331 – Sociological Research

Environmental Issues Concentration**Complete:**

- SOCI 360 – Environment and Resources

Select one course:

- SOCI 442 – Comparative Poverty and Development
- SOCI 446 – The Modern World System

Select two courses:

- SOCI 344 – Political Sociology
- SOCI 363 – Food, Agriculture and Society
- SOCI 465 – Social Values and the Environment
- SOCI 495 – Social Justice and Community Service

Select four courses (in consultation with advisor):

- 300-400 level sociology courses

REVISE SOCIOLOGY MINOR**Sociology—Prerequisites (6 hours)****Select one course (grade of C or better):**

- SOCI 110 - ~~Social Problems and Social Justice~~ **Social Justice and Social Change**
- ~~SOCI 117 - Honors: Social Justice and Social Change~~
- SOCI 120 - ~~Introduction to General~~ Sociology
- SOCI 127 - Honors: ~~Introduction to General~~ Sociology

THEATRE**◆ ADD THEATRE MAJOR—HONORS CONCENTRATION****Honors Concentration**

The Theatre Department offers an honors concentration. Candidates for the honors concentration in Theatre must fulfill all of the requirements for the Bachelor of Arts degree as well as these requirements:

- Complete 12 credits of theatre honors or honors by contract including 3-6 credits of THEA 497.
- Maintain a 3.25 overall GPA.
- Maintain a GPA of 3.5 in courses applied to the Theatre major.

COLLEGE OF BUSINESS ADMINISTRATION

All changes effective Fall 2012

PART I. COURSE CHANGES**(205) (BUAD) Business Administration**

ADD

103 Learning Community Seminar (1) Seminar covering topics of specific interest in a themed living learning community.*Repeatability: May be repeated. Maximum 2 hours.**Registration Restriction(s): Participation in a designated College of Business Administration living learning community is required.***(583) (IB) International Business**

DROP CREDIT RESTRICTION

469 International Accounting (3)

Formerly: Credit Restriction: Accounting majors may not receive accounting or international business credit for this course.

DEPARTMENT OF ECONOMICS**(283) (ECON) Economics**

ADD

471 Public Finance: Expenditure Analysis (3) Problems of collective consumption, external effects, public investment, social decision making. Writing-emphasis course.*(RE) Prerequisite(s): 311 or 312.*

DROP

371 Public Finance: Expenditure Analysis (3)

Equivalency Table

Current Course Economics (ECON)	Equivalent Course Effective Fall 2012 Economics (ECON)
371	471

REVISE DESCRIPTION

435 Industrial Organization (3) Monopoly and competition in the global economy. Interrelationship of market structure, business behavior, and economic performance.

Formerly: Monopoly and competition in United States economy. Interrelationship of market structure, business behavior, and economic performance.

DEPARTMENT OF FINANCE**(349) (FINC) Finance**

ADD

463 Enterprise Risk Management (3) Measuring and managing risks faced by financial institutions and nonfinancial corporations. Students will engage in hands-on application of Monte Carlo simulation via Excel spreadsheet modeling.*(RE) Prerequisite(s): 301 and Accounting 301 with grades of C or better.*

DEPARTMENT OF MANAGEMENT**(530) (HRM) Human Resource Management**

ADD

481 Acquiring Talent (3) Workforce planning, recruitment and selection, organizational entry and socialization. Planning, developing, implementing, administering, and performing ongoing evaluation of recruiting, hiring, orientation, and organizational exit to ensure that the workforce will meet the organization's goals and objectives.

(RE) Corequisite(s): 360.

Registration Restriction(s): Majors in the College of Business Administration.

DROP

370 Acquiring Talent (3)**Equivalency Table**

Current Course Human Resource Management (HRM)	Equivalent Course Effective Fall 2012 Human Resource Management (HRM)
370	481

DROP (RE) PREREQUISITE, ADD (RE) COREQUISITE

480 Growing Talent (3)

(RE) Corequisite(s): 360.

Formerly: (RE) Prerequisite(s): 360 with a grade of C or better.

(625) (MGT) Management

ADD

311 Ethics, Corruption, and Crime in Business (3) Examines the causes and effects of unethical, corrupt, and criminal behavior in organizations. Topics include accounting and financial fraud, insider trading, securities fraud, environmental and occupational health crimes, theft and embezzlement, bribery, unsafe and counterfeit products, consumer scams, health care fraud and abuse, crimes by public officials, fiduciary frauds, frauds by "trusted" institutions (religious organizations, educational institutions, and the media), and cybercrimes. Major ethical perspectives are integrated throughout the course.

(RE) Prerequisite(s): 201.

Registration Restriction(s): Majors in the College of Business Administration.

DEPARTMENT OF MARKETING AND LOGISTICS**(626) (LOG) Logistics**

ADD

499 Special Topics in Supply Chain Management (3) Seminar designed to study current issues in supply chain management.

Repeatability: May be repeated if topic differs. Maximum 6 hours.

(RE) Prerequisite(s): 411 with grade of C or better.

(632) (MARK) Marketing

ADD

499 Special Topics in Marketing (3) Seminar designed to study current issues in marketing.

Repeatability: May be repeated if topic differs. Maximum 6 hours.

(RE) Prerequisite(s): 360 with grade of C or better.

DEPARTMENT OF STATISTICS, OPERATIONS, AND MANAGEMENT SCIENCE**(962) (STAT) Statistics**

ADD

370 Search Engine Marketing: Paid Search Advertising Management and Optimization Strategies (3) Learn the fundamentals of creating, managing and optimizing an online marketing campaign in a hands-on class. Students will learn by creating a Google AdWords campaign with an actual budget. During the semester they will be given an opportunity to analyze the performance and improve their campaigns. The class will prepare students for 2 of the 4 AdWords Certification Exams.

(RE) Prerequisite(s): 201.

Comment: Course is intended for juniors or seniors in marketing or business analytics.

Registration Permission: Consent of instructor.

REVISE (RE) PREREQUISITE

475 Applied Time Series and Forecasting (3)

(RE) Prerequisite(s): 471 or consent of instructor.

Formerly: (RE) Prerequisite(s): 320 with a grade of C or better.

PART II. PROGRAM CHANGES**INTERCOLLEGIATE PROGRAMS**

REVISE PUBLIC ADMINISTRATION MAJOR

Fourth Year

BULW 301	2
~~ECON 471~~ ~~ECON 371~~	3
ECON 472	3
POLS 441	3
MGT 402	3
⁴ Economics or Political Science Electives	9
Electives	4-8

DEPARTMENT OF ECONOMICS

REVISE ECONOMICS MAJOR—TRADITIONAL OPTION (MAJOR COURSEWORK FOOTNOTE)

Economics Major Coursework Options (choose one area of focus):

ENVIRONMENTAL ECONOMICS – [ECON 362](#), [ECON 463](#).

HEALTH ECONOMICS – [ECON 436](#), [PUBH 300](#).

INTERNATIONAL ECONOMICS – [ECON 322](#), [ECON 421](#).

INDUSTRIAL ORGANIZATION – [ECON 331](#), [ECON 435](#).

LABOR ECONOMICS – [ECON 441](#); [MGT 472](#).

MONEY/MACROECONOMICS – [ECON 351](#), [ECON 413](#).

PUBLIC ECONOMICS – [ECON 471](#), ~~[ECON 371](#)~~, [ECON 472](#).

QUANTITATIVE ECONOMICS – [ECON 381](#), [ECON 482](#).

REGIONAL/URBAN ECONOMICS – [ECON 361](#); [FINC 485](#) ([ACCT 301](#) prerequisite).

DEPARTMENT OF MANAGEMENT

REVISE HUMAN RESOURCE MANAGEMENT MAJOR—COLLATERAL OPTION

Fourth Year

BULW 301	2
HRM 481 HRM 370	3
Collateral	6
HRM 480	3
HRM 485	3
MGT 402	3
Electives	7-11

REVISE HUMAN RESOURCE MANAGEMENT MAJOR—INTERNATIONAL BUSINESS DUAL CONCENTRATION

Third Year

BUAD 331 , BUAD 332	4
BUAD 341, BUAD 342	4
Ethics: PHIL 244* or PHIL 252*	3
⁴ FINC 301	3
BULW 301	2
⁴ BUAD 353	3
BUAD 361	3
HRM 360	3
HRM 481 HRM 370	3

REVISE MANAGEMENT MAJOR—ADD HUMAN RESOURCE MANAGEMENT COLLATERAL OPTION

Management Collateral Options

ENTREPRENEURSHIP – MGT 350, MGT 451, MGT 460.

HUMAN RESOURCE MANAGEMENT – HRM 480, HRM 481, HRM 485.

INFORMATION MANAGEMENT – INMT 341, INMT 342; and either INMT 442 or INMT 443.

INTERNATIONAL BUSINESS – Nine hours from: IB 409, IB 429, IB 439, IB 449, IB 459, IB 469, IB 492, BUAD 400 or MGT 472; and IB 489.

MARKETING – MARK 340, MARK 350, MARK 360.

RESOURCE MANAGEMENT – ACCT 301, ACCT 321; FINC 425.

DEPARTMENT OF MARKETING AND LOGISTICS

REVISE DEPARTMENT NAME

Department of Marketing and Supply Chain Management

Formerly: Department of Marketing and Logistics



Provost and Senior Vice Chancellor
for Academic Affairs
527 Andy Holt Tower
Knoxville, TN 37996-0152
Phone: 865-974-2445
865-974-4811

MEMORANDUM

To: Jan Williams, Dean, College of Business Administration
From: Susan Martin, Provost and Senior Vice Chancellor for Academic Affairs
CC: Carolyn Hodges, Vice Provost and Dean of the Graduate School
Sally McMillan, Vice Provost for Academic Affairs
Date: 1/11/2012
Re: Change to Name of Department of Marketing & Logistics

I have received the College's request to change the name of the Department of Marketing & Logistics to the Department of Marketing & Supply Chain Management. I have no objections to this change.

Please let me know if anything further is needed regarding this matter.

REVISE LOGISTICS MAJOR—ADD ECONOMICIS AND HUMAN RESOURCE MANAGEMENT COLLATERAL OPTIONS

Logistics Collateral Options

ECONOMICS – ECON 312, ECON 435, and one 400-level economics elective.

ENTREPRENEURSHIP - MGT 331, MGT 350, MGT 451.

HUMAN RESOURCE MANAGEMENT – MGT 331, HRM 360, HRM 481.

INFORMATION MANAGEMENT – INMT 341, INMT 342, and either INMT 442 or INMT 443.

INTERNATIONAL BUSINESS – Nine hours from: IB 409, IB 429, IB 439, IB 449, IB 459, IB 469, IB 492, BUAD 400 or MGT 472; and IB 489.

MARKETING – MARK 340, MARK 350, MARK 360.

REVISE MARKETING MAJOR—ADD ECONOMICIS AND HUMAN RESOURCE MANAGEMENT COLLATERAL OPTIONS

Marketing Collateral Options

ECONOMICS – ECON 312, ECON 435, and one 400-level economics elective.

ENTREPRENEURSHIP - MGT 331, MGT 350, MGT 451.

HUMAN RESOURCE MANAGEMENT – MGT 331, HRM 360, HRM 481.

INFORMATION MANAGEMENT – INMT 341, INMT 342, and either INMT 442 or INMT 443.

INTERNATIONAL BUSINESS – Nine hours from: IB 409, IB 429, IB 439, IB 449, IB 459, IB 469, IB 492, BUAD 400 or MGT 472; and IB 489.

LOGISTICS – LOG 310, LOG 411, LOG 421.

RESOURCE MANAGEMENT – ACCT 301; FINC 425, FINC 455.

DEPARTMENT OF STATISTICS, OPERATIONS, AND MANAGEMENT SCIENCE

REVISE BUSINESS ANALYTICS MAJOR—COLLATERAL OPTION

Third Year

BUAD 331 , BUAD 332	4
BUAD 341, BUAD 342	4
Ethics: PHIL 244* or PHIL 252*	3
FINC 301	3
STAT 320	3
⁴ Business Analytics Elective ~~s~~	~~3~~ 6
BUAD 353	3
BUAD 361	3
~~STAT 471~~	~~3~~
~~Collateral~~	~~3~~

Fourth Year

BULW 301	2
~~STAT 471~~	~~3~~
STAT 474	3
~~STAT 370 or~~ STAT 475 ~~or STAT 477~~	3
⁶ ~~Business Analytics Elective~~	~~3~~
~~Collateral~~	~~6~~ 3
MGT 402	3
Electives	7-11

COLLEGE OF COMMUNICATION & INFORMATION

All changes effective Fall 2012

PART I. COURSE CHANGES**SCHOOL OF COMMUNICATION STUDIES****(250) (CMST) Communication Studies**

DROP COMMENT, ADD REGISTRATION RESTRICTION

312 Survey of Interpersonal Communication

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

342 Survey of Organizational Communication

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

352 Communication Theory

Registration Restriction(s): Communication Studies majors only.

410 Family Communication

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

412 Close Relationships

Registration Restriction (s): Restricted to Communication Studies majors/minors or consent of instructor.

414 Persuasion

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

416 Interpersonal Health Communication

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

419 Interpersonal Conflict

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

442 Organizational Communication Processes

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

444 Group Communication

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

446 Leadership

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

449 Political Persuasion

Registration Restriction(s): Restricted to Communication Studies majors/minors or consent of instructor.

487 Honors Seminar

Registration Restriction(s): Communication Studies major–honors concentration only.

499 Proseminar in Communication Studies

Registration Restriction(s): Communication Studies majors only.

ADD REGISTRATION RESTRICTION

356 Research Methods in Communication Studies

Registration Restriction(s): Communication Studies majors only.

REVISE COMMENT, ADD REGISTRATION RESTRICTION

400 Topics in Communication Studies

Comment(s): Topics, scope of subject matter, and prerequisites to be determined by department.

Restriction Restriction(s): Major/Minor in Communication Studies only.

Formerly: *Comment(s): Topics, scope of subject matter, and prerequisites to be determined by department. Major/Minor in Communication Studies only.*

PART II. PROGRAM CHANGES

SCHOOL OF ADVERTISING AND PUBLIC RELATIONS

REVISE ADVERTISING MAJOR

First Year

ENGL 101*, ENGL 102*	6
CCI 150	3
¹ Foreign Language*	6
ANTH 130*	3
² Natural Science Electives*	8
~~MATH 119 or MATH 123*~~	~~3~~
MATH 125* or MATH 141*	3-4
⁵ Arts and Sciences Elective	3

⁵ Any course from the College of Arts and Sciences not currently required.

REVISE PUBLIC RELATIONS MAJOR

First Year

ENGL 101*, ENGL 102*	6
CCI 150	3
¹ Foreign Language*	6
ANTH 130*	3
² Natural Science Electives*	8
~~MATH 119 or MATH 123*~~	~~3~~
MATH 125* or MATH 141*	3-4
⁵ Arts and Sciences Elective	3

⁵ Any course from the College of Arts and Sciences not currently required.

SCHOOL OF JOURNALISM AND ELECTRONIC MEDIA

REVISE JOURNALISM AND ELECTRONIC MEDIA MAJOR

First Year

ENGL 101*, ENGL 102*	6
JREM 175	3
PSYC 110*	3
¹ Natural Sciences Electives*	6-8
² Quantitative Reasoning Electives*	6-8
JREM 200*	3
~~POLS 101* or~~ POLS 102*	3

COLLEGE OF EDUCATION, HEALTH, & HUMAN SCIENCES

All changes effective Fall 2012

PART I. COURSE CHANGES

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND COUNSELING

(255) (COUN) Counselor Education

ADD

220 Helping Skills in Face to Face and Online Settings (3) Explores effective helping skills and how they are changing with new technologies. Covers basic attending skills, reflective listening, mediation skills, and other communication strategies, in both face-to-face and online (e.g. e-mail, social media) contexts. Students will learn to communicate more effectively and understand how communication differs when mediated by technology.

DEPARTMENT OF KINESIOLOGY, RECREATION AND SPORT STUDIES

(590) (KNS) Kinesiology

ADD

365 Pediatric Exercise Science (3) An overview of factors that influence children's physical activity levels, physiological responses to exercise, motor development, and the growth and maturation processes. Additional topics include the effects of physical activity on children's fitness levels and health status.

(RE) Prerequisite(s): Biochemistry and Cellular and Molecular Biology 230.

(850) (RSM) Recreation and Sport Management

ADD

226 Therapeutic Recreation Programming I (3) Overview of characteristics of individuals with disabilities with a special focus on social, interpersonal and behavioral aspects of working with children, youth, and adults with multiple disabilities in a therapeutic recreation environment.

326 Therapeutic Recreation Programming II (3) In-depth involvement in writing objective-based activity lesson plans, methods of behavioral management and in developing therapeutic recreation programs for individuals with multiple disabilities in a therapeutic recreation environment.

(RE) Prerequisite(s): 226.

426 Therapeutic Recreation Programming III (3) Leadership and managerial roles in developing therapeutic recreation programs for individuals with multiple disabilities in a therapeutic recreation environment.

Contact Hour Distribution: Includes lab.

(RE) Prerequisite(s): 326.

Registration Restriction(s): Recreation and Sport Management major.

DROP

425 Therapeutic Recreation Programming (3)

Equivalency Table

Current Course Recreation and Sport Management (RSM)	Equivalent Courses Effective Fall 2012 Recreation and Sport Management (RSM)
425	226
	326
	426

ADD

424 Recreation and Aging (3) Examines the theoretical perspectives and the aging process as well as the purpose of leisure and recreation in older adults' lives. The course provides students with a foundation for providing programs and services in both community-based and long-term care facilities.

DROP (RE) PREREQUISITE

201 Foundations of Recreation and Principles of Leadership (4)

Formerly: (RE) Prerequisite(s): 100.

320 Therapeutic Recreation and Special Populations (3)

Formerly: (RE) Prerequisite(s) 290.

DROP REGISTRATION RESTRICTION

325 Therapeutic Recreation and Lifestyle Planning (3)

Formerly: Registration Restriction(s): Recreation and Sport Management Major.

405 Therapeutic Recreation in Public Schools (3)

Formerly: Registration Restriction: Recreation and Sport Management Major.

435 Adventure Recreation Ropes Course (1)

Formerly: Registration Restriction: Recreation and Sport Management Major.

DEPARTMENT OF NUTRITION**(726) (NUTR) Nutrition**

ADD

311 Physiological Chemistry (4) Biochemical principles underlying physiological events in animals. Metabolism of carbohydrates, lipids, proteins, and nucleic acids. Role of vitamins and minerals as coenzyme and prosthetic groups. Action of drugs and hormones.

(RE) Prerequisite(s): Biology 140 or Biochemistry and Cellular and Molecular Biology 230; Chemistry 100-110 or Chemistry 120-130.

DROP (SECONDARY CROSSLISTED COURSE)

†310 Physiological Chemistry (4) (See Biochemistry and Cellular and Molecular Biology 310.)

Equivalency Table

Current Course Nutrition (NUTR)	Equivalent Courses Effective Fall 2012 Nutrition (NUTR)
310	311

REVISE (RE) PREREQUISITE

313 Vitamins and Minerals (3)

(RE) Prerequisite(s): 311 or Biochemistry and Cellular and Molecular Biology 401; and Chemistry 350.

Formerly: (RE) Prerequisite(s): Biochemistry and Cellular and Molecular Biology 310 and Chemistry 350.

314 Energy Metabolism and Metabolic Integration (3)

(RE) Prerequisite(s): 311 or Biochemistry and Cellular and Molecular Biology 401; and Chemistry 350.

Formerly: (RE) Prerequisite(s): Biochemistry and Cellular and Molecular Biology 310 and Chemistry 350.

DEPARTMENT OF RETAIL, HOSPITALITY AND TOURISM MANAGEMENT**(514) (HRT) Hotel, Restaurant, and Tourism Management**

ADD

455 Hospitality Revenue Management (3) Pricing and demand allocation strategies for maximizing revenues of hospitality firms are examined. Hotel demand analysis is used in differential pricing strategies and inventory allocation decisions across electronic distribution channels. Revenue management strategies including forecasting demand and overbooking are examined for hotels, airlines, sports and entertainment, cruise lines, and food and beverage sectors.

(RE) Prerequisite(s): 211 and 390.

REVISE CREDIT HOURS, REVISE (RE) PREREQUISITE, DROP (DE) PREREQUISITE, DROP REPEATABILITY

326 Food and Lodging Cost Control (3)

(RE) Prerequisite(s): 210, 211, and Accounting 200.

Formerly: Food and Lodging Cost Control (1-3)

Repeatability: Not repeatable for credit. May be taken once for 1-3 hours.

(RE) Prerequisite(s): 210 and Accounting 200.

(DE) Prerequisite(s): Mathematics 123 and Mathematics 119.

REVISE (RE) PREREQUISITE

361 Issues and Trends in Consumer Service (3)

(RE) Prerequisite(s): 311.

Formerly: (RE) Prerequisite(s): 210 or 211.

410 Strategic Planning for the Hospitality Industry (4)

(RE) Prerequisite(s): 311, 326, and Management 300.

Formerly: (RE) Prerequisite(s): 390.

425 Legal Issues in Service Management (3)

(RE) Prerequisite(s): 311.

Formerly: (RE) Prerequisite(s): 390.

450 Advanced Lodging Management (3)

(RE) Prerequisite: 211.

Formerly: (RE) Prerequisite(s): 211 and 390.

REVISE (RE) PREREQUISITE, DROP (DE) PREREQUISITE

†311 Human Resources Management in Hospitality and Retailing (3)

(RE) Prerequisite(s): 210 or 211 or 212 or 224 or Retail and Consumer Sciences 210.

Formerly: (RE) Prerequisite(s): 210, or Retail and Consumer Sciences 210.

(DE) Prerequisite(s): 211, 212, or 224.

REVISE (RE) PREREQUISITE, DROP (DE) PREREQUISITE, DROP (DE) COREQUISITE

423 Marketing for Hospitality and Tourism (3)

(RE) Prerequisite(s): 210, 211, 212, and 224.

Formerly: (RE) Prerequisite(s): 211 and 224.

(DE) Prerequisite(s): 210.

(DE) Corequisite(s): Marketing 300.

ADD (RE) PREREQUISITE, DROP (DE) PREREQUISITE

435 Meeting Planning, Special Events, and Convention Management (3)

(RE) Prerequisite(s): 212.

Formerly: (DE) Prerequisite(s): 210 or 212.

DEPARTMENT OF THEORY AND PRACTICE IN TEACHER EDUCATION**(ASL) American Sign Language**

ADD ACADEMIC DISCIPLINE AND COURSES (MOVING FROM EDUCATIONAL INTERPRETING)

111 Elementary American Sign Language I (3) Expressive and receptive skill development in sign communication. Video text and interactive teaching method used. Class conducted totally in sign.

112 Elementary American Sign Language II (3) Expressive and receptive skill development in sign communication. Video text and interactive teaching method used. Class conducted totally in sign.

(RE) Prerequisite(s): 111.

211 Intermediate American Sign Language I (3) Sequence (211-212) stresses fluency of expressive and receptive sign communication skills. Using language in context is emphasized. Grammatical structures of ASL and cultural implications of the deaf community.

(RE) Prerequisite(s): 112.

212 Intermediate American Sign Language II (3) Sequence (211-212) stresses fluency of expressive and receptive sign communication skills. Using language in context is emphasized. Grammatical structures of ASL and cultural implications of the deaf community.

(RE) Prerequisite(s): 211.

435 Linguistics of American Sign Language (3) Introduction to grammatical and linguistic structures of ASL. Language variations, discourse, bilingualism, and language contact also covered. Conducted in ASL.

(RE) Prerequisite(s): 211.

(287) (EI) Educational Interpreting

DROP (MOVING TO AMERICAN SIGN LANGUAGE ACADEMIC DISCIPLINE)

223 American Sign Language I (3)

226 American Sign Language II (3)

431 American Sign Language III (3)

432 American Sign Language IV (3)

435 Linguistics of American Sign Language (3)

Equivalency Table

Current Courses	Equivalent Courses Effective Fall 2012
Educational Interpreting (EI)	American Sign Language (ASL)
223	111
226	112
431	211
432	212
435	435

(642) (MEDU) Math Education

REVISE TITLE

485 Teaching Mathematics in the Secondary School (3)

Formerly: Teaching of Mathematics, Grades 7-12

(932) (SPED) Special Education

REVISE DESCRIPTION

420 Field Experience in Special Education Programs (3)

Practicum in teaching special education. Planning, developing, implementing, and evaluating instruction for students with mild disabilities.

Formerly: Practicum in teaching special education programs. Planning, developing, implementing, and evaluating instruction.

ADD (DE) COREQUISITE

430 Applied Behavior Analysis in School Settings (3)

(DE) Corequisite(s): 432.

DROP (DE) COREQUISITE, ADD (RE) COREQUISITE

432 Psychology and Education of Students with Moderate/Severe Disabilities (6)

(RE) Corequisite(s): 430 or Educational Psychology 515.

Formerly: (DE) Corequisite(s): 431.

ADD (DE) PREREQUISITE

456 Effective Instruction of Students with Learning Disabilities and Other High Incidence Disabilities (3)

(DE) Prerequisite(s): 402 or consent of instructor.

REVISE DESCRIPTION, DROP REGISTRATION RESTRICTION, ADD (RE) PREREQUISITE

459 Physical and Health Impairments: Educational Implications (3)

Characteristics of students with neuromotor, orthopedic, and musculoskeletal impairments, degenerative and terminal conditions, health impairments including infectious diseases, and sensory losses and the impact of these disabilities on student learning.

Adaptations and teaching strategies for meeting the needs of students with physical, health, and sensory impairments in general and special education contexts.

(RE) Prerequisite(s): 402 or 470.

Formerly: The impact of neuromotor, orthopedic, and musculoskeletal impairments, degenerative and terminal conditions, health impairments including infectious diseases, and sensory losses on student learning. Adaptations and teaching strategies for meeting the needs of students with physical and health impairments in general and special education contexts.

Registration Restriction(s): Qualification - admission to teacher education. No prerequisite

ADD COMMENT, DROP (RE) PREREQUISITE

402 Professional Studies: Special Education and Diverse Learners (3)

Comment: Students in Communication Disorders or Educational Interpreting should register for Special Education 470 instead of 402.

Formerly: (RE) Prerequisite(s): Educational Psychology 210.

REVISE DESCRIPTION, REVISE (RE) COREQUISITE

419 Psychology and Education of Students with Mild Disabilities (6) Nature and characteristics of persons with mild disabilities and the educational strategies appropriate for these persons.

(RE) Corequisite(s): 420 or 456.

Formerly: Nature and characteristics of persons with mild handicaps and the educational strategies appropriate for these persons.

(RE) Corequisite(s): 420.

(978) (TPTE) Theory & Practice in Teacher Education

ADD GRADING RESTRICTION

442 Integrated Middle Grades Methods (3)

Grading Restriction(s): Letter grade only.

II. PROGRAM CHANGES

DEPARTMENT OF KINESIOLOGY, RECREATION AND SPORT STUDIES

REVISE KINESIOLOGY MAJOR

First Year

	Hours	Credit
KNS 100	1	
ENGL 101*, ENGL 102*	6	
MATH 123* ~~MATH 125* or MATH 141*~~ MATH 142* ~~or MATH 151*~~ MATH 152*	6-8	
¹ MATH 125* or MATH 141*	3-4	
CHEM 120*, CHEM 130*	8	
PSYC 110*	3	
² ¹ ~~General~~ Electives	6	3
³ ² Arts and Humanities Elective*	3	

Second Year

PHYS 221*, PHYS 222*	8	
BCMB 230	5	
NUTR 100*	3	
⁴ ³ Physical Education Activity Program Electives	2	
CMST 210* or CMST 240*	3	
ENGL 295* or ENGL 360* ~~or PHIL 252* or PHIL 345*~~	3	
³ ² Cultures and Civilizations Elective*	3	
³ ² Arts and Humanities Elective*	3	

Third Year

KNS 260, KNS 332, KNS 335, KNS 350	10	
⁵ ⁴ Departmental Electives	6	
³ ² Cultures and Civilizations Elective*	3	
³ ² Social Sciences Elective*	3	
⁴ ³ Physical Education Activity Program Electives	2	
⁶ ⁵ Professional Electives	6	

Fourth Year

⁷ ⁶ KNS 414, KNS 422, KNS 480	9	
STAT 201* or MATH 115*	3	
² ¹ ~~General~~ Elective	3	6
⁶ ⁵ Professional Electives	9	
⁵ ⁴ Departmental Electives	6	3
Total	120-121	122

* Meets University General Education Requirement.

¹ If math placement score is not high enough to enter into MATH 125 or MATH 141 directly, MATH 119 or MATH 123 or MATH 130 is recommended. If taken, MATH 119, MATH 123, or MATH 130 can be counted as a general elective.

² ¹Classes that do not count in other areas of the Kinesiology curriculum can be counted as general electives.

³ ²Select courses from the University General Education list.

⁴ ³Student must pass a total of 4 hours in physical education classes. Participation in athletic competition does not count toward these hours. See advisor.

⁵ ⁴Select courses from KNS 231, KNS 290, ~~KNS 365~~, KNS 370, KNS 380, KNS 426, KNS 440, KNS 450, KNS 490, KNS 493, ~~or~~ KNS 497; ~~RSM 226, RSM 236~~, RSM 320, ~~RSM 326~~, RSM 335, RSM 336, ~~RSM 337, RSM 338~~, RSM 370, ~~RSM 405~~, RSM 415, ~~RSM 425~~, ~~RSM 426~~, ~~RSM 424~~, RSM 450.

⁶ ⁵Select courses from KNS 231, KNS 290, ~~KNS 365~~, KNS 370, KNS 380, KNS 426, KNS 440, KNS 450, KNS 490, KNS 493, KNS 497; ~~RSM 226, RSM 236~~, RSM 320, ~~RSM 326~~, RSM 335, RSM 336, ~~RSM 337, RSM 338~~, RSM 370, ~~RSM 405~~, RSM 415, ~~RSM 425~~, ~~RSM 426~~, ~~RSM 424~~, RSM 450;

ACCT 200; ANTH 480; any BCMB course; BIOL 101, BIOL 102, BIOL 130, BIOL 140; CFS 210; CHEM 350, CHEM 358, CHEM 360, CHEM 368, CHEM 369; CLAS 273; CMST 416; COSC 100; ECON 201; EEB 240; FINC 300; PUBH 300, PUBH 305, PUBH 311; MARK 300; MICR 210; MGT 201, MGT 300; NURS 351; NUTR 302; PHIL 244, PHIL 252; PSYC 210, PSYC 220, PSYC 300, PSYC 310, PSYC 320, PSYC 330, PSYC 360, PSYC 382, PSYC 400, PSYC 410, PSYC 430, PSYC 431, PSYC 434, PSYC 435, PSYC 440, PSYC 461, PSYC 470, PSYC 475, PSYC 480, PSYC 482, PSYC 496; STAT 201. Professional electives must be passed with a minimum grade of "C." Other courses not listed here may be petitioned to count as kinesiology professional electives with approval of the assigned kinesiology faculty advisor. Check with advisor prior to taking the course. Courses selected as professional electives cannot be used to fulfill additional requirements in the program.

⁷ Kinesiology students must have a cumulative minimum GPA of 2.5 to register for these courses.

REVISE RECREATION AND SPORT MANAGEMENT MAJOR—SPORT MANAGEMENT CONCENTRATION

First Year

	Hours	Credit
ENGL 101*, ENGL 102*		6
¹ Cultures and Civilizations Electives*		6
¹ Social Sciences Elective*		3
RSM 100		1
¹ Arts and Humanities Elective*		3
MATH 125* or MATH 141*		3-4
⁶ General Electives		9 7

Third Year

² MGT 300		3
² FINC 300		3
² MARK 300		3
RSM 335 or RSM 336, ~~RSM 350³, RSM 390³~~		3 9
~~RSM 350³, RSM 390³~~		6
¹ Arts and Humanities Elective*		3
¹ Communicating through Writing Elective*		3
⁶ General Electives		6

Fourth Year

³ RSM 490		12
⁴ Select ~~six~~ five courses: KNS 490, ~~RSM 310³~~ , RSM 330 ³ , ~~RSM 336~~ , ~~RSM 337~~ , ~~RSM 338~~ , RSM 340 ³ , RSM 360 ³ , RSM 370 ³ , RSM 380 ⁵ , RSM 410 ³ , RSM 415 ³ , RSM 430 ³ , RSM 440 ³ , RSM 450 ³ , RSM 460 ³		18 15
~~⁶General Electives~~		5

* Meets University General Education Requirement.

¹ Select courses from the University General Education list. At least one natural science course must have a lab.

² Business administration minor requirement.

³ Requires progression into the recreation and sport management major.

⁴ All courses on list (except KNS 490 ~~and RSM 336~~, RSM 337, and RSM 338) require progression into the recreation and sport management major.

⁵ The class focus for RSM 380 must be sport management.

⁶ Select any course not already required for the major.

REVISE PROGRAM TEXT—RECREATION AND SPORT MANAGEMENT MAJOR—THERAPEUTIC RECREATION CONC

Progression Requirements

Students must submit an application upon meeting the following minimum criteria.

- Minimum of 30 semester hours earned.

- Minimum 2.5 GPA for all college work.
- Completion of ~~RSM-100-and~~ RSM 201 with a grade of C or better.
- Completion of ENGL 101 and ENGL 102, and three (3) hours of quantitative reasoning.

REVISE RECREATION AND SPORT MANAGEMENT MAJOR—THERAPEUTIC RECREATION CONCENTRATION

First Year

	Hours	Credit
ENGL 101*, ENGL 102*		6
¹ Quantitative Reasoning Electives*		6
² CHEM 100*-CHEM 110* or CHEM 120*-CHEM 130* or BIOL 101*-BIOL 102*		8
CFS 210*		3
~~RSM-100,~~ RSM 201	~~4~~	5
PSYC 110*		3

Second Year

CLAS 273		3
² BCMB 230		5
CMST 210* or CMST 240*		3
⁶ Elective		3
~~RSM 226~~	~~3~~	
³ RSM 290, RSM 320, RSM 325		9
PHIL 252*		3
¹ Cultures and Civilizations Electives*		6

Third Year

KNS 332 or EEB 240		3-4
PSYC 330		3
¹ Arts and Humanities Electives*		6
RSM 310 ³ , RSM 390 ³ , ~~RSM 326~~ ~~RSM 425,~~		9
KNS 290		3
⁴ Professional Support Course Electives (~~300-~~ or 400-level)		6

Fourth Year

Psychology elective (~~300-or~~ 400-level)		3
RSM 420, RSM 430, and any 300-or400-level RSM course		9
^{3, 5} RSM 490		12
⁶ Elective	~~4~~	3
Total	120	121

* Meets University General Education Requirement.

¹ Select courses from the University General Education list.

² Students taking BCMB 230 at UTK must take a chemistry sequence.

³ Requires progression into the recreation and sport management major.

⁴ Courses must be in addition to those specified for the major and must be selected from 400-level courses in the following disciplines: child and family studies, psychology, sociology, recreation and sport management, special education, or kinesiology.

⁵ Must meet guidelines for national NCTRC certification.

⁶ Select any course not already required for the major.

NOTE: A 2.5 GPA is required for progression to the major.

DEPARTMENT OF RETAIL, HOSPITALITY AND TOURISM MANAGEMENT

REVISE HOTEL, RESTAURANT AND TOURISM MAJOR (FOOTNOTE 1)

¹ Choose from HRT 101, **HRT 330**, HRT 423, HRT 435, HRT 440, HRT 445, HRT 450, **HRT 455**, HRT 484, **HRT 494**.

DEPARTMENT OF THEORY AND PRACTICE IN TEACHER EDUCATION

REVISE SPECIAL EDUCATION MAJOR—COMMUNICATION DISORDERS CONCENTRATION

Third Year

AUSP 302, AUSP 303, AUSP 305, AUSP 306, AUSP 320, AUSP 435, AUSP 473	21
LING 200	3
ASL 111, ASL 112 EI-223, EI-226	6

Fourth Year

AUSP 431, AUSP 433, AUSP 440, AUSP 461, AUSP 494	13
EDDE 425	3
SPED 470	3
RSM 226 425	3
² Electives	6

² Recommended Electives: additional **American Sign Language (ASL)**, Educational Interpreting (EI) courses; continue foreign language beyond the intermediate level; calculus if pursuing audiology; additional courses in education of the deaf and hard of hearing (EDDE).

REVISE SPECIAL EDUCATION MAJOR—EDUCATION OF THE DEAF AND HARD OF HEARING CONCENTRATION

Second Year

	Hours	Credit
CMST 210* or CMST 240* or course with Communicating Orally (OC) designation		3
ASL 111, ASL 112 EI-223, EI-226		6
EDPY 210		3
⁷ General Elective	2-3	
LING 200		3
⁵ Biological Science Elective*	3-4	
⁶ Physical Science Elective*	3-4	
PHIL 252* PHIL-244*		3
AUSP 303		3

Third Year

EDDE 419, EDDE 425	7
ASL 211, ASL 212 EI-431, EI-432	6
² Educational Methods	6
REED 430 or REED 543	2-3
³ Professional Elective	3
⁴ INSC 330	3
SPED 402	3

Fourth Year

EDPY 401	3
TPTE 486	3
EDDE 410, EDDE 415, EDDE 416	9
AUSP 494	3
³ Professional Electives	9
ASL 435 EI-435	3

Total 120-122

Professional Electives

Students obtaining an elementary K-6 license in general education will choose a collateral area and complete a total of 12 credit hours. Collateral areas are listed below. Check the Course Descriptions for any prerequisites required for these courses.

- **Audiology and Speech Pathology** - A USP 300, A USP 302, A USP 305, A USP 306, A USP 435.
- **Child and Family Studies** - CFS 106, CFS 211, CFS 350, CFS 351, CFS 353.
- **Educational Interpreting** - EI 335, EI 340, EI 350, EI 355.
- **English as a Second Language** - ENGL 474, ENGL 476, ENGL 477; FLED 466 /566, FLED 476 /576, FLED 489 /588.
- **Linguistics** – **ASL 435 EI-435**; LING 400; ENGL 471, ENGL 472, ENGL 474, ENGL 476, ENGL 477, ENGL 485.
- **Reading and Language Arts** - ELED 528, 550; REED 461, 519, 529, 530, 536, 537, 538, 539, 540, 543.
- **Special Education** - SPED 410, SPED 419, SPED 420, **SPED 430, SPED 432**, SPED 456, SPED 459, SPED 471, **SPED 553, SPED 577, SPED 590**.

REVISE SPECIAL EDUCATION MAJOR—EDUCATIONAL INTERPRETING CONCENTRATION

<u>Second Year</u>	Hours Credit
CMST 210* or CMST 240*	3
Communicating through Writing (WC) Elective*	3
Elective	3
HIST 241*, HIST 242*	6
Arts and Humanities Elective*	3
Social Sciences Elective*	3
ASL 111, ASL 112 EI-223 and EI-226	6
<u>Third Year</u>	
TPTE 486	3
PHIL 244* PHIL 340*	3
EDPY 210	3
PSYC 300	3
EDPY 401	3
ASL 211, ASL 212 EI-431, EI-432	6
EI 335	3
EI 340	3
EI 350	3
EI 355	3
<u>Fourth Year</u>	
Cultures and Civilizations Electives*	6
EDDE 415, EDDE 416, EDDE 425	9
EI 345	4
SPED 402	3
ASL 435 EI-435	3
EI 440	6
Total	121-122

* Meets University General Education Requirement.

NOTE: Progression to the educational interpreting concentration requires a 2.7 cumulative GPA after a minimum of 30 semester hours of course work and completion of **ASL 111 and ASL 112 EI-223 and EI-226** with a grade of B or better in both courses. A Board of Admissions will meet once each fall and spring to review applications and conduct interviews with each applicant. Students admitted to the program must maintain a minimum cumulative GPA of 2.7 while in the program. Students with less than a 2.7 GPA for two consecutive semesters will be dropped from the program. Students who fail to meet the standards for professional conduct during the course of their fieldwork will not be retained in the major.

REVISE SPECIAL EDUCATION MAJOR—MODIFIED AND COMPREHENSIVE SPECIAL EDUCATION CONCENTRATION

<u>Second Year</u>	
PHIL 252* (AH) (WC)	3
CMST 210* or CMST 240* or <u>Communicating Orally</u> (OC) General Education Elective*	3
EDPY 210	3

^{4,5} Non-US History	6
Geography Elective	3
¹ Biological Science Electives*	8
² Foreign Language*	6

Third Year

Arts and Humanities*	3
Economics Elective	3
CFS 211	3
INSC 330	3
AUSP 320	3
~~RSM 226 RSM 425~~	3
EDPY 401	3
³ ELED 422	6
³ REED 430	2
~~^{3,4}SPED 410~~	~~3~~

Fourth Year

³ SPED 402	3
³ SPED 419	6
³ SPED 420	3
³ SPED 456	3
³ SPED 459	3
³ SPED 432	6
³ SPED 430	3
³ TPTE 486	3
~~^{3,4}SPED 471~~	~~6~~

Modified and Comprehensive Special Education (K-12)

Undergraduate Total 121

Elementary Education Option (K-6)

Undergraduate Total 121

Early Childhood Special Education Option ~~(B-3)~~

Undergraduate Total 130

* Meets University General Education Requirement.

¹ Must include a total of 2 lab sciences from the University General Education Natural Sciences list.² Intermediate-level competence.³ Requires admission to teacher licensure.

⁴ ~~Two courses from AFST 235, AFST 236; HIST 241, HIST 242, HIST 247, HIST 248, HIST 261, HIST 262, HIST 267, HIST 268; LAC 251, LAC 252, MRST 201, MRST 202. Optional—Meets requirement for early Childhood Special Education licensure.~~

⁵ ~~Two courses from AFST 235, AFST 236; HIST 241, HIST 242, HIST 247, HIST 248, HIST 261, HIST 262, HIST 267, HIST 268; LAMS 251, LAMS 252, MDST 201, MDST 202.~~

NOTE: Optional early childhood special education licensure (requires SPED 410, SPED 471, and ELED 445).

The following courses are taken during the post-baccalaureate professional year. Students must apply to and be admitted by the Graduate School prior to registration.

Internship**Hours Credit**

~~ELED 505~~	~~12~~
~~ELED Courses~~	~~6~~
TPTE 574	3 6
TPTE 575	12 2
TPTE 591	3 4

Graduate Total 24

COLLEGE OF ENGINEERING

All changes effective Fall 2012

PART I. COURSE CHANGES**DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING****(223) (CBE) Chemical and Biomolecular Engineering****†** ADD AND CROSSLIST

455 Elements of Synthetic Biology and Metabolic Engineering (3) Cross-disciplinary course combining synergistic approaches of synthetic biology and metabolic engineering to design complex cellular metabolisms to solve challenging problems related to health, energy, and environment with integration of state-of-the-art computational and experimental techniques. *(Same as Chemical and Biomolecular Engineering 555.)*

Credit Restriction: Students cannot receive credit for both 455 and 555.

REVISE (DE) COREQUISITE

201 Material and Energy Balances (4)

(DE) Corequisite(s): Mathematics 231.

Formerly: (DE) Corequisite(s): 250 and Engineering Fundamentals 230.

ADD (RE) COREQUISITE, DROP (RE) PREREQUISITE

235 Fundamentals of Molecular Bioengineering (3)

(RE) Corequisite(s): Biology 140.

Formerly: (RE) Prerequisite(s): Biology 140.

DROP (DE) PREREQUISITE, ADD (RE) PREREQUISITE, REVISE (RE) COREQUISITE

240 Fluid Flow and Heat Transfer (4)

(RE) Prerequisite(s): 201 and Mathematics 231.

(RE) Corequisite(s): Mathematics 241.

Formerly: (DE) Prerequisite(s): 201.

(RE) Corequisite(s): Mathematics 231.

ADD (RE) PREREQUISITE, ADD (RE) COREQUISITE

250 Application of Chemical and Biomolecular Engineering Thermodynamics (4)

(RE) Prerequisite(s): Mathematics 231.

(RE) Corequisite(s): Mathematics 241.

ADD SECONDARY CROSSLIST

† **457 Engineering Entrepreneurship (3)** *(See Mechanical Engineering 457.)***DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING****(254) (CE) Civil Engineering**

ADD

437 Honors Geotechnical Engineering II (3) Same as CE 430 with additional honors project.

(RE) Prerequisite(s): 331.

447 Honors Civil Engineering Systems Design and Management (3) Same as CE 440 with additional honors project.

(RE) Prerequisite(s): Statistics 251.

Registration Restriction(s): Civil and environmental engineering majors only. Minimum student level – junior.

458 Honors Transportation Engineering II (3) Same as CE 455 with additional honors project.

(RE) Prerequisite(s): 355.

467 Honors Structural Engineering II (3) Same as CE 461 with additional honors project.

(RE) Prerequisite(s): 262.

487 Honors Environmental Engineering II (3) Same as CE 481 with additional honors project.

(RE) Prerequisite(s): 300 and 381.

497 Honors Water Resources Engineering II (3) Same as CE 494 with additional honors project.

(RE) Prerequisite(s): 391.

DROP

486 Air and Waste Management (3)

REVISE DESCRIPTION

262 Structural Mechanics (3) Fundamentals of structural mechanics including reactions, shear and moment diagrams, trusses, axially loaded members, centroids and area moments of inertia, normal and shear stresses in beams, influence lines, Mohr's Circle, and torsion.

Formerly: Fundamentals of structural mechanics including reactions, shear and moment diagrams, trusses, axially loaded members, centroids and area moments of inertia, normal and shear stresses in beams, Mohr's Circle, and torsion.

461 Structural Engineering II (3) Analysis of structural elements including loads, shears and moments, composite beams, column buckling, deflections of beams, frames, and trusses, vertical and lateral load-resisting systems, analysis of indeterminate structures by moment distribution, stiffness, and approximate methods.

Formerly: Analysis of structural elements including loads, shears and moments, influence lines, composite beams, column buckling, deflections of beams, frames, and trusses, vertical and lateral load-resisting systems, analysis of indeterminate structures by moment distribution, stiffness, and approximate methods.

REVISE DESCRIPTION, ADD REGISTRATION RESTRICTION

401 Review of Engineering Fundamentals (1) Review of selected topics covered on the Fundamentals of Engineering exam.

Emphasis is on those topics relating to civil and environmental engineering. Must be taken during either of the final two terms prior to graduation.

Registration Restriction(s): Civil and Environmental Engineering students only. Minimum student level – senior.

Formerly: Review of selected topics covered on the Fundamentals of Engineering exam. Emphasis is on those topics relating to civil and environmental engineering. Must be taken during the term of graduation. Summer graduates must take the course during their last preceding term.

REVISE (RE) PREREQUISITE

472 Steel Design (3)

(RE) Prerequisite: 371.

Formerly: (RE) Prerequisite 461.

474 Reinforced Concrete Design (3)

(RE) Prerequisite: 371.

Formerly: (RE) Prerequisite 461.

DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

(266) (COSC) Computer Science

REVISE (RE) PREREQUISITE

140 Data Structures and Algorithms I (4)*(RE) Prerequisite(s): 102.*

Formerly: (RE) Prerequisite(s): 102 or Electrical and Computer Engineering 206.

160 Computer Organization (4)*(RE) Prerequisite(s): 102.*

Formerly: (RE) Prerequisite(s): 102 or Electrical and Computer Engineering 206.

311 Discrete Structures (3)*(RE) Prerequisite(s): 140 and Mathematics 142.*

Formerly: (RE) Prerequisite(s): 140 and Mathematics 300.

360 Systems Programming (4)*(RE) Prerequisite(s): 160 and 302.*

Formerly: (RE) Prerequisite(s): 302; 160 or Electrical and Computer Engineering 355.

361 Operating Systems (3)*(RE) Prerequisite(s): 160 and 302.*

Formerly: (RE) Prerequisite(s): 360.

462 Parallel Programming (3)*(RE) Prerequisite(s): 360 or 361.*

Formerly: (RE) Prerequisite(s): 361.

(319) (ECE) Electrical and Computer Engineering

ADD

201 Circuits I (3) Fundamental laws of circuit analysis. Ohm's Law. Kirchhoff's current and voltage laws; the law of conservation of energy; circuits containing independent and dependent voltage, and current sources, resistance, conductance, capacitance, and inductance analyzed using mesh and nodal analysis, superposition, and source of transformations; and Norton's and Thevenin's Theorems. Steady state analysis of DC and AC circuits. Complete solution for transient analysis for circuits with one and two storage elements.

Registration Permission: Consent of associate department head.

202 Circuits II (3) Operational amplifiers, average, complex, imaginary and real power; effective values of voltage and currents, three phase circuits, delta and wye connections. Complex frequency; sinusoidal forcing functions and natural response. Resonance: general case, special cases in series and parallel circuits. Scaling: magnitude and frequency. Mutual inductance, transformers as circuit elements; linear and ideal transformers. Admittance, impedance and hybrid parameters. Trigonometric and complex Fourier series. Includes laboratory exercises.

(RE) Prerequisite(s): 201.

DROP

300 Circuits (5)**Equivalency Table**

Current Course	Equivalent Course Effective Fall 2012
Electrical and Computer Engineering (ECE)	Electrical and Computer Engineering (ECE)
300	201
	202

ADD

351 Digital Systems Design (3) Introduction to the use of hardware description languages and automated synthesis in digital systems design. Topics include: advanced design principles in VHDL, reconfigurable computing, simulation and synthesis for hardware description languages, design for meeting timing and area constraints, design for reuse, digital systems components and interfacing, digital system design applications.

(RE) Prerequisite(s): 255.

DROP

206 Electrical Engineering Computations (4)

355 Computing System Fundamentals (3)

REVISE CREDIT HOURS

255 Introduction to Logic Design of Digital Systems (3)

Formerly: (4)

REVISE CREDIT HOURS, REVISE (RE) PREREQUISITE

325 Electric Energy System Components (3)

(RE) Prerequisite(s): 202.

Formerly: 325 Electric Energy System Components (4)

(RE) Prerequisite(s): 300.

335 Electronic Devices (3)

(RE) Prerequisite(s): 202.

Formerly: 335 Electronic Devices (4)

(RE) Prerequisite(s): 300.

REVISE DESCRIPTION, REVISE (RE) PREREQUISITE

453 Introduction to Computer Networks (3) Introduction to the design and implementation of computer networks. Topics to be covered include: layered network architecture, physical media, data link protocols, network routing, transport layer, network programming interfaces such as sockets, and applications. Examples will be primarily based on protocols in the Internet. Include Level 1 design projects with programming assignments related to networking protocols.

(RE) Prerequisite(s): 313 or Mathematics 323.

Formerly: Principles of computer networking and software design of network protocol with an emphasis on the internet and TCP/IP protocol suite.

Includes Level 1 design projects.

(RE) Prerequisite(s): 206 or Computer Science 102.

REVISE (RE) PREREQUISITE

315 Signals and Systems I (3)

(RE) Prerequisite(s): 202.

Formerly: (RE) Prerequisite(s): 300.

341 Fields (3)

(RE) Prerequisite(s): 202 and Mathematics 241.

Formerly: (RE) Prerequisite(s): 300 and Mathematics 241.

395 Junior Seminar (1)

(RE) Prerequisite(s): 202.

Formerly: (RE) Prerequisite(s): 300.

451 Computer Systems Architecture (3)

(RE) Prerequisite(s): 255 and Computer Science 160.

Formerly: (RE) Prerequisite(s): 355.

454 Computer and Network Security (3)

(RE) Prerequisite(s): 313 or Mathematics 323.

Formerly: (RE) Prerequisite(s): 206 or Computer Science 102.

455 Embedded Systems Design (3)

(RE) Prerequisite(s): 255 and Computer Science 160.

Formerly: (RE) Prerequisite(s): 355.

471 Introduction to Pattern Recognition (3)

(RE) Prerequisite(s): 313 or Mathematics 323; Mathematics 200 or Mathematics 251.

Formerly: (RE) Prerequisite(s): 316.

472 Introduction to Digital Image Processing (3)

(RE) Prerequisite(s): 313 or Mathematics 323; Mathematics 200 or Mathematics 251.

Formerly: (RE) Prerequisite(s): 316.

REVISE (RE) PREREQUISITE, DROP (DE) PREREQUISITE

***400 Senior Design (5)**

(RE) Prerequisite(s): 315 or 351.

Formerly: (RE) Prerequisite(s): 316 and 342.

(DE) Prerequisite(s): 355.

ENGINEERING FUNDAMENTALS DIVISION

(323) (EF) Engineering Fundamentals

REVISE (RE) COREQUISITE

***151 Physics for Engineers I (4)**

(RE) Corequisite(s): 105 or Computer Science 102; and Mathematics 141 or higher.

Formerly: (RE) Corequisite(s): 105 and Mathematics 141 or higher.

***157 Honors: Physics for Engineers I (4)**

(RE) Corequisite(s): 105 or Computer Science 102; and Mathematics 141 or higher.

Formerly: (RE) Corequisite(s): 105 and Mathematics 141 or higher.

DEPARTMENT OF INDUSTRIAL AND INFORMATION ENGINEERING

(556) (IE) Industrial Engineering

ADD AND REQUEST GEN ED DESIGNATION (COURSE APPROVED BUT NOT GEN ED)

***205 Engineering Economic Analysis (3)** Introduction to engineering economy and its application in engineering practice. Time-value of money and discounted cash flow techniques. Basic accounting principles. Decisions among engineering alternatives involving design options, equipment selection, break-even points, and similar situations. Cost estimating and consideration of taxes and inflation. Analyzing uncertainty in economic estimates using nonprobabilistic techniques. Introduction to technomics including transaction cost analysis, concept of technomic metrics, key trends driving exponential change in the economy and organizations.

~~Satisfies General Education Requirement: (SS)~~

ADD

317 Honors: Operations Research in Industrial Engineering II (3) Students will attend 310 classes with supplementary assignments and/or class meetings.

(RE) Prerequisite(s): 200 or Statistics 251; and 301.

Registration Permission: Consent of instructor.

407 Honors: Facilities Planning and Material Handling (3) Students will attend 401 classes with supplementary assignments and/or class meetings.

(RE) Prerequisite(s): 202.

(RE) Corequisite(s): 205 or 405.

Registration Permission: Consent of instructor.

408 Honors: Simulation (3) Students will attend 406 classes, with supplementary assignments and/or class meetings.

Contact Hour Distribution: 2 hours lecture and 1 lab.

(RE) Prerequisite(s): 200 or Statistics 251.

(RE) Corequisite(s): 310 or 317.

Recommended Background: Completion of 202 and an introductory course in probability and statistics.

Registration Permission: Consent of instructor.

428 Honors: Information Systems Analysis and Design (3) Students will attend 421 classes with supplementary assignments and/or class meetings.

(RE) Corequisite(s): 402.

Registration Restriction(s): Industrial engineering major; minimum student level — senior.

Recommended Background: Completion of 202 and an introductory course in probability and statistics.

Registration Permission: Consent of instructor.

430 Supply Chain Engineering (3) An overview of supply chain engineering with topics including: building a strategic framework to analyze supply chains, designing the supply chain network, planning demand and supply, planning and managing inventories, sourcing, transporting, and pricing products, and coordination and technology in the supply chain.

(RE) Corequisite(s): 205 or 405.

REVISE (RE) COREQUISITE

202 Work Measurement and Introduction to Manufacturing Processes (3)

(RE) Corequisite(s): 200 or Statistics 251.

Formerly: (RE) Corequisite(s): 200.

401 Facilities Planning and Material Handling (3)

(RE) Corequisite(s): 205 or 405.

Formerly: (RE) Corequisite(s): 405.

404 Industrial Engineering Design I (2)

(RE) Corequisite(s): 205 or 405.

Formerly: (RE) Corequisite(s): 405.

REVISE (RE) PREREQUISITE

300 Engineering Data Analysis and Process Improvement (3)

(RE) Prerequisite(s): 200 or Statistics 251.

Formerly: (RE) Prerequisite(s): 200.

406 Simulation (3)

(RE) Prerequisite(s): 200 or Statistics 251.

Formerly: (RE) Prerequisite(s): 200.

REVISE TITLE, REVISE (RE) PREREQUISITE

310 Operations Research in Industrial Engineering II (3)

(RE) Prerequisite(s): 200 or Statistics 251; and 301.

Formerly: Operation Research in Industrial Engineering II (3)

(RE) Prerequisite(s): 200, 301.

DROP RECOMMENDED BACKGROUND, DROP REGISTRATION PERMISSION

***422 Industrial Engineering Design II (2)**

Formerly: Recommended Background: Completion of one semester of industrial engineering senior-level courses.

Registration Permission: Consent of instructor.

REVISE (RE) COREQUISITE, REVISE RECOMMENDED BACKGROUND

427 Introduction to Lean Systems (3)

(RE) Corequisite(s): 406 or 408.

Recommended Background: 350, 401 (or 407), and completion of an introductory course in probability and statistics.

Formerly: (RE) Corequisite(s): 406.

Recommended Background: 350, 401, and completion of an introductory course in probability and statistics.

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

(638) (MSE) Materials Science and Engineering

ADD

347 Honors: Principles of Polymeric Materials (3) Honors version of 340 that requires an additional honors component.

(RE) Prerequisite(s): 201.

357 Honors: Principles of Electronic, Optical, and Magnetic Materials (3) Honors version of 350 that requires an additional honors component.

(RE) Prerequisite(s): 201.

367 Honors: Principles of Ceramic Materials (3) Honors version of 360 that requires an additional honors component.

(RE) Prerequisite(s): 201.

397 Honors: Principles of Metallic Materials (3) Honors version of 390 that requires an additional honors component.

(RE) Prerequisite(s): 201.

460 Solar Photovoltaics (3) Underlying physics of semiconductor materials used as photovoltaics and a review of the current state of the art of converting sunlight to electrical energy.

(RE) Prerequisite(s): 350 or consent of the instructor.

ADD SECONDARY CROSSLIST

† **450 Introduction to Nuclear Fuels and Materials (3)** (See Nuclear Engineering 440.)

† **451 Corrosion in Nuclear Power Systems (3)** (See Nuclear Engineering 441.)

ADD SECONDARY CROSSLIST

† **457 Engineering Entrepreneurship (3)** (See Mechanical Engineering 457.)

ADD (RE) PREREQUISITE, DROP REGISTRATION RESTRICTION

✱ **489 Materials Design (3)**

(RE) Prerequisite(s): 304, 340, 360, 370, 390, 480.

Formerly: (RE) Prerequisite(s): none.

Registration Restriction(s): Materials Science and Engineering majors and senior standing.

DEPARTMENT OF MECHANICAL, AEROSPACE AND BIOMEDICAL ENGINEERING

(018) (AE) Aerospace Engineering

ADD

347 Honors: Fluid Mechanics (3) Honors version of 341. Students will attend 341 classes with supplementary assignments.

(RE) Prerequisite(s): Mechanical Engineering 231 and Mathematics 241.

Registration Restriction(s): Aerospace, biomedical, mechanical, or biosystems engineering major. Students in any honors program.

377 Honors: Airplane Performance (3) Honors version of 370. Students will attend 370 classes with supplementary assignments.

(RE) Corequisite(s): 341.

Registration Restriction(s): Aerospace, biomedical, or mechanical engineering major. Students in any honors program.

(192) (BME) Biomedical Engineering

ADD

367 Honors: System Dynamics (3) Honors version of 363. Students will attend 363 classes with supplementary assignments.*(RE) Prerequisite(s): Mechanical Engineering 231 and Mathematics 231.**Registration Restriction(s): Aerospace, biomedical, or mechanical engineering major. Students in any honors program.***477 Honors: Applied Biomechanics (4)** Honors version of 473. Students will attend 473 classes with supplementary assignments.*(RE) Prerequisite(s): Mechanical Engineering 321.**Registration Restriction(s): Aerospace, biomedical, or mechanical engineering major. Students in any honors program.*

REVISE (RE) PREREQUISITE

345 Biomedical Engineering Instrumentation and Measurement (3)*(RE) Prerequisite(s): Aerospace Engineering 341 and Electrical and Computer Engineering 201.**Formerly: (RE) Prerequisite(s): Aerospace Engineering 341 and Electrical and Computer Engineering 300.***(650) (ME) Mechanical Engineering**

ADD

367 Honors: System Dynamics (3) Honors version of 363. Students will attend 363 classes with supplementary assignments.*(RE) Prerequisite(s): 231 and Mathematics 231.**Registration Restriction(s): Aerospace engineering major or biomedical engineering major or mechanical engineering major.**Students in any honors program.***397 Honors: Engineering Analysis (3)** Honors version of 391. Students will attend 391 classes with supplementary assignments.*(RE) Prerequisite(s): Engineering Fundamentals 152 and Mathematics 231.**(DE) Prerequisite(s): Mathematics 251 or 200 and Engineering Fundamentals 230.**Registration Restriction(s): Aerospace engineering major or biomedical engineering major or mechanical engineering major.**Students in any honors program.***464 Engineering Optics and Microscopy (3)** Introduction to the basic optical theories and principles for engineers. Advanced optical and scanning probe microscopy techniques and applications.*(RE) Prerequisite(s): Mathematics 200 or 251; and Mathematics 231.***477 Honors: Thermal Engineering (3)** Honors section of 475. Students will attend 475 classes with supplementary assignments.*(RE) Prerequisite(s): 344.**Registration Restriction(s): Aerospace engineering major or biomedical engineering major or mechanical engineering major.**Students in any honors program.*

REVISE TITLE, REVISE DESCRIPTION, REVISE (RE) PREREQUISITE

366 Computer Aided Engineering and Manufacturing (3) Introduction to the processes related to computer aided engineering and manufacturing of mechanical parts and systems.*(RE) Prerequisite(s): 321, Materials Science and Engineering 201.**Formerly: Manufacturing Processes (3) Processes related to design of machine parts. Casting, hot and cold forming, metal removal, and weldments. Manufacturing tolerances and surface finishes.**(RE) Prerequisite(s): Materials Science and Engineering 201.*

REVISE PRIMARY CROSSLIST (TO ADD MORE SECONDARY CROSSLISTS)

†457 Engineering Entrepreneurship (3) Technology and innovation, technology transfer, and patent protection. Legal formation and intellectual property, knowledge management, generation, and transmission. Creating a business plan and a marketing plan, launching a technology- based business. Sources of capital, small business growth and operation. *(Same as Chemical and Biomolecular Engineering 457, Industrial Engineering 457, Materials Science and Engineering 457, and Nuclear Engineering 457.)*

REVISE (RE) PREREQUISITE

470 Computer Aided Design (3)

(RE) Prerequisite(s): 366.

Formerly: (RE) Prerequisite(s): 231 and 321.

DEPARTMENT OF NUCLEAR ENGINEERING

(716) (NE) Nuclear Engineering

ADD

347 Honors: Thermal Science (3) Students will attend 342 classes with supplementary assignments and/or class meetings.

(DE) Prerequisite(s): 203 or Mechanical Engineering 331.

Registration Permission: Consent of instructor.

357 Honors: Nuclear System Dynamics and Control (3) Students will attend 351 classes with supplementary assignments and/or class meetings.

Registration Permission: Consent of instructor.

367 Honors: Numerical Methods and Fortran (3) Students will attend 362 classes with supplementary assignments and/or class meetings.

Registration Permission: Consent of instructor.

***427 Honors: Nuclear Engineering Laboratory (3)** Students will attend 402 classes with supplementary laboratory assignments.

Satisfies General Education Requirement: (WC)

Registration Permission: Consent of instructor.

447 Honors: Nuclear Fuel Cycle (3) Students will attend 404 classes with supplementary assignments and/or class meetings.

Registration Permission: Consent of instructor.

467 Honors: Radiation Shielding (3) Students will attend 406 classes with supplementary assignments and/or class meetings.

Registration Permission: Consent of instructor.

ADD PRIMARY CROSSLIST (TO EXISTING COURSE), ADD (RE) PREREQUISITE, ADD (RE) COREQUISITE, DROP (DE) PREREQUISITE, DROP (DE) COREQUISITE

†440 Introduction to Nuclear Fuels & Materials (3) Introduction to nuclear fuels and materials in light water reactors, with a focus on the effect of irradiation on properties and performance. *(Same as Materials Science and Engineering 450.)*

(RE) Prerequisite(s): Mechanical Engineering 331 or Materials Science and Engineering 260.

(RE) Corequisite(s): Materials Science and Engineering 201; and Mechanical Engineering 321 or Materials Science and Engineering 302.

Formerly: (DE) Prerequisite(s): Mechanical Engineering 331.

(DE) Corequisite(s): Materials Science and Engineering 201 and Mechanical Engineering 321.

ADD PRIMARY CROSSLIST (TO EXISTING COURSE), REVISE (DE) PREREQUISITE

†441 Corrosion in Nuclear Power Systems (3) *(Same as Materials Science and Engineering 451.)*

(DE) Prerequisite(s): Materials Science and Engineering 201; and Mechanical Engineering 331 or Materials Science and Engineering 260.

Formerly: (DE) Prerequisite(s): Mechanical Engineering 331 and Materials Science and Engineering 201.

ADD SECONDARY CROSSLIST

†457 Engineering Entrepreneurship (3) *(See Mechanical Engineering 457.)*

Formerly: none.

PART II. PROGRAM CHANGES

REVISE COLLEGE TEXT (FIRST-YEAR COURSES FOR HONORS CONCENTRATIONS)

Beginning students who wish to pursue an honors concentration in one of the engineering majors will normally be part of the Chancellor's Honors Program or the Haslam Scholars Program. Requirements for first-year coursework are:

- Four 100- or 200-level departmental honors courses. For engineering students, these would normally be EF 157, EF 158, and two courses chosen from MATH 147, MATH 148, MATH 247 or CHEM 128, CHEM 138.
- The combination of ~~a UNHO 101, UNHO 102, UNHO 400~~ and a UNHO 200-level course may be used as an approved substitute for a single 200-level departmental honors course.
- Other departmental honors courses may be approved by the individual engineering departments upon entry to their honors concentration.
- Coursework requirements in the upper division are specific to the individual departments and the student is referred to those individual descriptions for explanation.

REVISE COLLEGE TEXT (ADD VOLS TEACH PARAGRAPH BEFORE ACADEMIC PROGRAMS HEADING)

VolsTeach Program

Students pursuing a major in the College of Engineering are eligible to participate in the University's VolsTeach program (<http://volsteach.utk.edu/>), which permits students to simultaneously complete a major in engineering and receive secondary education teaching licensure through completion of a VolsTeach minor. For more information about VolsTeach, including advising associated with teaching licensure requirements, contact the Center for Enhancing Education in Mathematics and Science (100 Greve Hall).

DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING

REVISE CHEMICAL ENGINEERING MAJOR (FOOTNOTES 2 AND 3)

¹**Chem Option I:** Any 200-level or above BCMB courses; any 200-level or above CHEM courses; Environmental Engineering 554, 562; ~~MSE 340~~ or ~~MSE 347~~, ~~MSE 360~~ or ~~MSE 367~~; any 200-level or above MICR courses.

²**Bio Option I:** BCMB 230, ~~BCMB 310~~ BCMB 321, BCMB 401, BCMB 402, ~~BCMB 412~~, BIOL 240, BIOL 250; MICR 210, MICR 310, ~~CBE 455~~.

³One technical elective must be a chemical and biomolecular engineering course. ~~CBE 457 may not count as the one CBE course.~~

REVISE CHEMICAL ENGINEERING MAJOR—HONORS CONCENTRATION (2ND BULLET)

- Further requirements for the honors chemical engineering concentration are as follows. Maintain an overall GPA of at least 3.3 and a GPA of at least 3.3 in departmental courses. Complete CHEM 483; CBE 407, CBE 447, and one of the following: CBE 467, CBE 488, CBE 498. Complete a 3-hour senior design course. ~~This requirement is satisfied by CBE 488.~~

REVISE CHEMICAL ENGINEERING MAJOR—BIOMOLECULAR ENGINEERING CONCENTRATION

Fourth Year

CBE 401, CBE 445, CBE 450, CBE 475, CBE 480, CBE 488*(OC) or CBE 490*(OC) 16

¹Bio Option I 2-3

General Education Electives (Cultures and Civilizations and Social Sciences)* 9

BCMB 401 or BCMB 412 4

Total 128 129

* Meets University General Education Requirement.

¹ BCMB 230, BCMB 321, ~~BCMB 401~~, BCMB 412; BIOL 250; ~~CHEM 369~~; MICR 210, MICR 310, ~~CBE 455~~.

REVISE CHEMICAL ENGINEERING MAJOR—HONORS BIOMOLECULAR ENGINEERING CONCENTRATION (2ND BULLET)

- Further requirements for the honors chemical engineering concentration are as follows. Maintain an overall GPA of at least 3.3 and a GPA of at least 3.3 in departmental courses. Complete CHEM 483; CBE 407, CBE 447, and one of the

following: CBE 467, CBE 488, CBE 498. Complete a 3-hour senior design course. This requirement is satisfied by CBE 488.

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

REVISE CIVIL ENGINEERING MAJOR

Third Year

Arts and Humanities Elective*	3
CE 300, CE 305, CE 310, CE 321, CE 331, CE 355, CE 371, CE 381, CE 440 or CE 447	24
Cultures and Civilizations Electives*	6

Fourth Year

CE 400, CE 401, CE 442	7
¹ Civil Engineering Concentration Electives	6
¹ Civil Engineering Concentration Labs	2
³ Civil Engineering/Technical Electives	9
Arts and Humanities Elective*	3
Social Sciences Elective*	3
EF 402	1

*Meets University General Education Requirement. All electives must be pre-approved by the advisor and the department head.

¹ Students must select 2 of the following concentration sequences: environmental sequence (CE 481 or CE 487, CE 482), geotechnical sequence (CE 430 or CE 437, CE 432), structural sequence (CE 461 or CE 467, CE 463), transportation sequence (CE 455 or CE 458, CE 456), water resources sequence (CE 494 or CE 497, CE 496).

² Students select from BIOL 101, BIOL 102, BIOL 130, BIOL 138, BIOL 140, BIOL 148; Environmental Engineering 513; ESS 462; GEOG 131, GEOG 410; GEOL 101, GEOL 103, GEOL 107.

³ Must be approved by advisor.

REVISE CIVIL ENGINEERING MAJOR—HONORS CONCENTRATION

Students who wish to pursue the honors civil engineering concentration will normally be part of the Chancellor's Honors Program. Candidates for the honors civil engineering concentration must complete the following requirements.

- Two upper-division honors courses in civil engineering (CE 407, CE 437, CE 458, CE 467, CE 487, or CE 497). -via ~~honors-by-contract or CE 407.~~
- ~~If participating in only the Chancellor's Honors Program, the Honors-by-Contract paperwork goes to the Chancellor's Honors Office on campus during the first 10 days of the semester. If participating in Engineering Honors and not Chancellor's Honors, the Honors-by-Contract paperwork is submitted the first 10 days of the semester to the engineering major department. If participating in both Chancellor's and Engineering Honors, the Honors-by-Contract paperwork is submitted to both areas.~~
- A minimum of 3-credit hours of an honors senior project course. This requirement may be satisfied by CE 407 or by enrolling in the honors section of the senior capstone design course (CE 400).

REVISE ENVIRONMENTAL ENGINEERING MINOR

Minor Requirements

The minor requires the completion of a minimum of **21 credits** in coursework which builds the foundation of an environmental engineering perspective.

Required Courses

Complete:

CE 486—Air and Waste Management

GEOL 202—Earth as an Ecosystem: Modern Problems and Solutions

Select one course:

~~CBE 475—Applied Microbiology and Bioengineering~~
~~ENVE 513—Environmental Microbiology~~

Select one course:

CHEM 230 - Inorganic Chemistry
CHEM 310 - Analytical Chemistry
CHEM 350 - Organic Chemistry I
~~ENVE 511 - Environmental Chemistry~~

Select one course:

~~BSE 576 - Applied Microbiology and Bioengineering~~
~~CBE 235 - Fundamentals of Molecular Bioengineering~~
~~CBE 475 - Applied Microbiology and Bioengineering~~
~~ENVE 513 - Environmental Microbiology~~

Select one ~~two~~ courses:

BSE 221 - Mass and Energy in Biosystems
~~BSE 416—Environmental Hydrology~~
CBE 201 - Material and Energy Balances
CE 381 - Environmental Engineering I
~~CE 494—Water Resources Engineering II~~

Select one course:

~~BSE 416 - Environmental Hydrology~~
CE 485 - Principles of Hydrogeology
~~CE 494 - Water Resources Engineering II~~
~~ESS 444—Environmental Soil Physics~~
GEOL 485 - Principles of Hydrogeology

Select three courses:

~~BSE 431- Bioprocess Engineering~~
~~BSE 525 - Soil Erosion and Sediment Yield~~
~~BSE 555 - GIS/GPS Applications to Biosystems~~
~~CBE 340 - Mass Transfer and Separation Processes~~
~~CBE 481 - Sustainable Engineering, Design, and Analysis~~
~~CE 481 - Environmental Engineering II~~
~~ENVE 512 - Environmental Transport and Kinetics~~
~~ENVE 520 - River Mechanics~~
~~ENVE 525 - Soil Erosion and Sediment Yield~~
~~ENVE 530 - Urban Hydrology and Stormwater Engineering~~
~~ENVE 535 - Applied Ground Water Hydrology~~
~~ENVE 558 - Solid and Hazardous Waste Management~~
~~ENVE 574 - Air Pollution Engineering and Control~~
~~ESS 444 - Environmental Soil Physics~~
~~ESS 454 - Environmental Soil Biology~~

DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

REVISE DEPARTMENTAL TEXT (GENERAL HEADING, LAST PARAGRAPH)

Students who take ~~ECE 202 399~~ will be evaluated during the semester they are registered for it. Transfer students for whom ~~ECE 202 399~~ transfer credit is given may take 9 semester hours in departmental courses before progression evaluation. All students, whether or not they transfer in, who are not accepted into the upper-division program of the department will be put in either a temporary probationary status or a non-progressed status and will not be permitted to register for any upper division courses within the department.

REVISE COMPUTER SCIENCE MAJOR

First Year

COSC 102 ~~or ECE 206~~
COSC 140

4
4

MATH 141* or MATH 147*, MATH 142* or MATH 148*	8
PHYS 135* or PHYS 137*, PHYS 136* or PHYS 138*	8-10
ENGL 101* or ENGL 118*, ENGL 102*	6

²Any courses not already required for the major. ~~Must be approved by advisor.~~

REVISE COMPUTER ENGINEERING MAJOR

Students ~~in the senior year~~ may choose from a wide spectrum of courses covering various aspects of computer engineering, computer science, electrical engineering, and related fields. ~~Students must meet the design, depth, and breadth requirements in the department in their selection of these courses. Students are encouraged to discuss an appropriate senior program with their advisors.~~

First Year

ENGL 101* or ENGL 118*, ENGL 102*	6
~~CHEM 120*~~	~~4~~
MATH 141* or MATH 147*, MATH 142* or MATH 148*	8
¹ EF 151* or EF 157*, EF 152* or EF 158*, ~~EF 105~~	~~8~~ 9
~~ECE 206 or~~ COSC 102, ~~COSC 160~~	~~8~~ 4

Second Year

~~CHEM 120 or~~ CHEM 128	~~4~~
COSC 140	4
MATH 231, MATH 241 or MATH 247, MATH 251 or MATH 257	10
PHYS 231*, PHYS 232*	7
~~ECE 255, ECE 313~~	~~7~~
~~ECE 300~~	~~5~~
~~ECE 201, ECE 202, ECE 255~~	~~9~~

Third Year

~~ECE 313, ECE 315, ECE 335~~	~~9~~ 7
COSC 302, ~~COSC 311, COSC 361, COSC 360,~~	~~10~~ 8
~~MATH 300 or MATH 307~~	~~3~~
~~ECE 351, ECE 346, ECE 342, ECE 355, ECE 395~~	~~4~~ 10
³ Computer Engineering Upper Division Elective	3
² Arts and Humanities Elective*	3
² Cultures and Civilizations Electives*	~~3~~ 6

Fourth Year

ECE 451	3
~~ECE 453 or ECE 454 or ECE 455~~	~~3~~
ECE 400*(OC, WC)	5
³ Computer Engineering ~~Upper Division Senior~~ Electives	~~12~~ 6
² Arts and Humanities Elective*	3
² Social Sciences Electives*	6
² Cultures and Civilizations Elective*	~~3~~
¹ EF 402	4

Total 128

* Meets University General Education Requirements.

¹ EF 157 and EF 158 are honors versions of EF 151 and EF 152. ~~Students in the Chancellor's Honors Program are not required to take EF 402.~~

² Can be taken at any time.

³ ~~Must be in electrical and computer engineering courses. At most, one computer engineering senior elective can be from any 300-level electrical and computer engineering courses. Approved senior electives are ECE 325, ECE 336, ECE 341, ECE 415, ECE 416, ECE 421, ECE 422, ECE 431, ECE 432, ECE 433, ECE 441, ECE 442, ECE 443, ECE 446, ECE 453, ECE 455, ECE 471, ECE 472, ECE 481, and ECE 482. The following table lists the acceptable set of electives that may be taken to satisfy the upper division~~

electives for the Computer Engineering major. The electives have been grouped into 6 suggested tracks. The tracks group related electives that a student may wish to take in order to achieve a level of expertise in the indicated area. The 500-level courses are listed as suggestions to students admitted in the Five-Year BS/MS Program. Among the five Computer Engineering Upper Division Electives, you must choose courses that cover 3 tracks with one of the tracks being Networking & Embedded Systems. The course distribution among the 3 tracks should follow the 2-2-1 pattern, among which at most 2 courses can be at the 300-level.

Networking & Embedded Systems	Signals and Systems	Machine Learning & Artificial Intelligence
• ECE 453 – Intro Computer Networks • ECE 454 – Computer & Network Security • ECE 455 – Embedded Systems Design • COSC 530 – Comp Systems Organization • ECE 553 – Computer Networks • ECE 555 – Embedded Systems • ECE 556 – Wireless Sensor Networks	• ECE 316 – Signals and Systems II • ECE 471 – Intro Pattern Recognition • ECE 472 – Intro Digital Image Processing • ECE 505 – Digital Signal Processing I • ECE 506 – Digital Signal Processing II • ECE 571 – Pattern Recognition • ECE 572 – Digital Image Processing	• ECE 471 – Intro Pattern Recognition • COSC 420 – Bio Inspired Computation • COSC 425 – Machine Learning • ECE 517 – Reinforcement Learning • COSC 526 – Intro Data Mining • COSC 527 – Bio-inspired Learning • COSC 528 – Intro Machine Learning • COSC 529 – Autonomous Mobile Robotics • ECE 571 – Pattern Recognition
Software Systems	Control and Communications	Electronics and Power
• COSC 340 – Software Engineering • COSC 360 – Systems Programming • COSC 370 – Scientific Computing • COSC 456 – Computer Graphics • COSC 461 – Compilers • COSC 462 – Parallel Programming • COSC 465 – Databases • COSC 525 – Software Engineering • COSC 541 – Database • COSC 556 – Computer Graphics • COSC 557 – Visualization • COSC 560 – Software Systems • COSC 565 – Survey of Programming Languages • COSC 567 – Graphical User Interfaces • COSC 581 – Algorithms	• ECE 316 – Signals and Systems II • ECE 415 – Automatic Control Systems • ECE 416 – Computer Control Systems • ECE 341 – Fields • ECE 342 – Communications • ECE 441 – Digital Communications • ECE 442 – Comm System Design • ECE 443 – Antenna	• ECE 316 – Signals and Systems II • ECE 336 – Electronic Circuits • ECE 431 – Operational Amplifier • ECE 432 – Electronic Amplifiers • ECE 433 – Intro to VLSI • ECE 325 – Electric Energy System Components • ECE 421 – Electric Energy Systems • ECE 481 – Power Electronics

REVISE ELECTRICAL ENGINEERING MAJOR

First Year

ENGL 101* or ENGL 118*, ENGL 102*

6

~~CHEM 120*~~

4

MATH 141* or MATH 147*, MATH 142* or MATH 148*

8

¹EF 151* or EF 157*, EF 152* or EF 158*, ~~EF 105~~

8 9

~~ECE 206~~, COSC 102, ~~COSC 160~~

8 4

Second Year~~CHEM 120~~ or ~~CHEM 128~~

4

~~MATH 200~~, MATH 231, MATH 241 or MATH 247, ~~MATH 251~~ or ~~MATH 257~~

10 8

PHYS 231*, PHYS 232*

7

~~ECE 201~~, ~~ECE 202~~

6

ECE 255, ECE 313

6 7

~~ECE 300~~

5

²Arts and Humanities Elective*

3

Third Year

ECE 315, ECE 325, ECE 335, ECE 341

12 14

ECE 316, ECE 336, ECE 342, ~~ECE 355~~, ECE 395

10 13

²Social Sciences Electives*

6

²Arts and Humanities Elective*

3

⁴ ~~COSC 140~~, ~~COSC 311~~ or ~~MATH 300~~, ~~COSC 370~~; ~~CHEM 130~~; ~~IE 405~~; ~~MSE 201~~, ~~MSE 410~~; ~~ME 231~~, ~~ME 321~~, ~~ME 331~~, ~~ME 344~~; ~~NE 342~~ or ~~NE 347~~.

DEPARTMENT OF INDUSTRIAL AND INFORMATION ENGINEERING

REVISE INDUSTRIAL ENGINEERING MAJOR

Second Year

MATH 200, MATH 231, MATH 241 or MATH 247	8
PHYS 231*	3
EF 230	2
IE 200, IE 202, IE 250, IE 205* or IE 405	10
MSE 201	3
ME 331	3
ECON 201* or ECON 207*	4

Third Year

ECE 301	3
IE 300, IE 301, IE 304, IE 310 or IE 317, IE 340, IE 350*	16
IE 401 or IE 407, IE 402, IE 421 or IE 428	9
² Arts and Humanities Elective*	3

Fourth Year

IE 404, IE 406 or IE 408, IE 422*, IE 427, IE 450	11
³ IE Technical Electives	6 42
⁴ Cultures and Civilizations Electives*	6
⁵ Arts and Humanities Elective*	3
⁶ IE Electives	6

* Meets General Education Requirement.

¹ See Social Sciences – University General Education Requirement. Select one course from the list other than ECON 201 and ECON 207.

² See Arts and Humanities - University General Education Requirement. Select one course from the list.

³ Chosen from AE 341 or AE 347; BME 300; BUAD 361, BUAD 410; BULW 301; COSC 102, ECE 206, ECE 255 ECE 300*, ECE 302; ECON 311, ECON 312, ECON 313, ECON 322, ECON 331, ECON 333, ECON 351, ECON 361; FINC 300, FINC 425, FINC 455; IE 423, IE 430, IE 457, IE 483, IE 484; INSC 310, INSC 451, MARK 300; MGT 300; MSE 302, MSE 340 or MSE 347, MSE 360 or MSE 367, MSE 390 or MSE 397, MSE 405; ME 321, ME 363 or ME 367, ME 365, ME 366, ME 405; NE 342 or NE 347. Courses denoted with * have a registration restriction. Some courses denoted with # have may require a prerequisite or corequisite that is not part of the industrial engineering program.

⁴ See Cultures and Civilizations – University General Education Requirement. Select two courses from the list, or select a two-course sequence in a foreign language at the intermediate level, or select a six-hour intensive foreign language course at the intermediate level.

⁵ See Arts and Humanities - University General Education Requirement. Preferably, select PHIL 244* or PHIL 252*. Select one course from the list, preferably PHIL 244*.

⁶ Chosen from IE 423, IE 430, IE 457, IE 483, IE 484, IE 491, IE 492, IE 493. The same course may not be used to count for both the IE technical elective and the IE elective.

REVISE INDUSTRIAL ENGINEERING MAJOR—HONORS CONCENTRATION

Students, who wish to pursue the honors industrial engineering concentration, will normally be part of the Chancellor's Honors Program. Candidates for the honors concentration in industrial engineering must complete the following requirements.

- First-year courses for honors concentration in the engineering majors.
- Two upper-division honors courses in industrial engineering (IE 317, IE 407, IE 408, IE 428) via Honors-by-Contract or Honors-Independent-Study.

- ~~● If participating in only the Chancellor's Honors Program, the Honors-by-Contract paperwork goes to the Chancellor's Honors Office on campus during the first 10 days of the semester. If participating in Engineering Honors and not Chancellor's Honors, the Honors-by-Contract paperwork is submitted the first 10 days of the semester to the engineering major department. If participating in both Chancellor's and Engineering Honors, the Honors-by-Contract paperwork is submitted to both areas. (Note: These honors requirements are course substitutions for the industrial engineering major.)~~
- Minimum of 3-credit hours of an honors senior design course. This requirement is normally satisfied as part of their senior capstone design course (IE 422).

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

REVISE MATERIALS SCIENCE AND ENGINEERING MAJOR (3RD YEAR AND FOOTNOTE 4)

Third Year

MSE 300, MSE 302, MSE 304, MSE 320, MSE 340 or MSE 347, MSE 350 or MSE 357, MSE 360 or MSE 367, MSE 370, MSE 390 or MSE 397	23
STAT 251	3
² General Education Electives (Arts and Humanities)	3
³ Technical Elective	3

⁴Materials Science and Engineering electives: MSE 410, MSE 421, MSE 425, MSE 432, MSE 440, MSE 445, MSE 450, MSE 451, MSE 457, MSE 460, MSE 466, MSE 474, MSE 476, MSE 484, MSE 485, MSE 486, MSE 494, MSE 495.

REVISE MATERIALS SCIENCE AND ENGINEERING MAJOR—BIOMATERIALS CONC (3RD YEAR AND FOOTNOTE 4)

Third Year

MSE 300, MSE 302, MSE 304, MSE 320, MSE 340 or MSE 347, MSE 350 or MSE 357, MSE 360 or MSE 367, MSE 370, MSE 390 or MSE 397	23
STAT 251	3
² General Education Electives (Arts and Humanities)	3
³ Technical Elective	3

⁴Materials Science and Engineering electives: MSE 410, MSE 421, MSE 425, MSE 432, MSE 440, MSE 445, MSE 450, MSE 451, MSE 457, MSE 460, MSE 466, MSE 474, MSE 476, MSE 484, MSE 485, MSE 486, MSE 494, MSE 495.

REVISE MATERIALS SCIENCE AND ENGINEERING MAJOR—NANOMATERIALS CONC (3RD YEAR AND FOOTNOTE 4)

Third Year

MSE 300, MSE 302, MSE 304, MSE 320, MSE 340 or MSE 347, MSE 350 or MSE 357, MSE 360 or MSE 367, MSE 370, MSE 390 or MSE 397	23
STAT 251	3
² General Education Electives (Arts and Humanities)	3
³ Technical Elective	3

⁴Materials Science and Engineering electives: MSE 410, MSE 421, MSE 425, MSE 432, MSE 440, MSE 445, MSE 450, MSE 451, MSE 457, MSE 460, MSE 466, MSE 474, MSE 476, MSE 484, MSE 485, MSE 486, MSE 494, MSE 495.

REVISE MATERIALS SCIENCE AND ENGINEERING MAJOR—HONORS CONCENTRATION

Students who wish to pursue the honors materials science and engineering concentration ~~or the honors biomaterials concentration~~ will normally be part of the Chancellor's Honors Program. Candidates for ~~this concentration~~ ~~these honors concentrations~~ must complete the following requirements.

- First-year courses for honors concentration in the engineering majors.
- Two upper-division honors courses in Materials Science and Engineering ~~(chosen from MSE 347, 357, 367, and 397).~~ ~~via Honors-by-Contract or Honors-Independent Study.~~
- ~~If participating in only the Chancellor's Honors Program, the Honors-by-Contract paperwork goes to the Chancellor's Honors Office on campus during the first 10 days of the semester. If participating in Engineering Honors and not Chancellor's Honors, the Honors-by-Contract paperwork is submitted the first 10 days of the semester to the engineering major department. If participating in both Chancellor's and Engineering Honors, the Honors-by-Contract paperwork is submitted to both areas. (Note: These honors requirements are course substitutions for the materials science and engineering major.)~~
- ~~A senior research project or thesis is required. This requirement is satisfied as part of the senior capstone design course (MSE 489). A minimum of 3-credit hours of an honors senior design course. This requirement is normally satisfied as part of their senior capstone design course (MSE 489).~~

REVISE MATERIALS SCIENCE AND ENGINEERING MAJOR—HONORS BIOMATERIALS CONCENTRATION

Students who wish to pursue the honors ~~biomaterials materials science and engineering~~ concentration ~~or the honors biomaterials concentration~~ will normally be part of the Chancellor's Honors Program. Candidates for ~~this concentration~~ ~~these honors concentrations~~ must complete the following requirements.

- First-year courses for honors concentration in the engineering majors.
- Two upper-division honors courses in Materials Science and Engineering ~~(chosen from MSE 347, 357, 367, and 397).~~ ~~via Honors-by-Contract or Honors-Independent Study.~~
- ~~If participating in only the Chancellor's Honors Program, the Honors-by-Contract paperwork goes to the Chancellor's Honors Office on campus during the first 10 days of the semester. If participating in Engineering Honors and not Chancellor's Honors, the Honors-by-Contract paperwork is submitted the first 10 days of the semester to the engineering major department. If participating in both Chancellor's and Engineering Honors, the Honors-by-Contract paperwork is submitted to both areas. (Note: These honors requirements are course substitutions for the materials science and engineering major.)~~
- ~~A senior research project or thesis is required. This requirement is satisfied as part of the senior capstone design course (MSE 489). A minimum of 3-credit hours of an honors senior design course. This requirement is normally satisfied as part of their senior capstone design course (MSE 489).~~

DEPARTMENT OF MECHANICAL, AEROSPACE, AND BIOMEDICAL ENGINEERING

REVISE DEPARTMENTAL TEXT (FULL STATUS HEADING)

A lower-division student may apply for progression to upper division after completing CHEM 120, MATH 231, ME 202, ME 231, and ME 321, and PHYS 231, ~~as well as BME 271 for biomedical engineers~~, with a grade of C or better in each, and an overall GPA of at least 2.4.

REVISE AEROSPACE ENGINEERING MAJOR

Third Year

AE 341 ~~or AE 347~~, AE 345, AE 351, AE 363, AE 370 ~~or AE 377~~

ME 331, ME 344, ME 363 ~~or ME 367~~

ECE 301

ME 391 ~~or ME 397~~

²Arts and Humanities Elective*

16

9

3

3

3

REVISE AEROSPACE ENGINEERING MAJOR—HONORS CONCENTRATION

In addition to satisfying the requirements for the aerospace engineering major, candidates for the honors aerospace engineering concentration must also complete the following requirements.

- First-year courses for honors concentrations in the engineering majors. (Note: Most of the honors requirements are course substitutions for the aerospace engineering major.)
- Two upper-division honors courses in aerospace engineering (AE 347, AE 377). ~~via Honors-by-Contract or Honors Independent Study. If participating in only the Chancellor's Honors Program, the Honors-by-Contract paperwork goes to the Chancellor's Honors Office on campus during the first 10 days of the semester. If participating in Engineering Honors and not Chancellor's Honors, the Honors-by-Contract paperwork is submitted the first 10 days of the semester to the engineering major department. If participating in both Chancellor's and Engineering Honors, the Honors-by-Contract paperwork is submitted to both areas.~~
- A minimum of 3-credit hours of an honors senior design course. This requirement is normally satisfied as part of the senior capstone design course (AE 429).

REVISE BIOMEDICAL ENGINEERING MAJOR

Third Year

ECE 201, 202	300	6 5
AE 341	or AE 347	3
BME 315, BME 345, BME 363	or BME 367	9
ME 331		3
MSE 201		3
IE 205*	ECON 204* or ECON 207*	3 4
² Arts and Humanities Elective*		3

Fourth Year

EF 402		1
BME 410*(OC), BME 430*(WC), BME 455, BME 469, BME 473	or BME 477	13
² Cultures and Civilizations Elective*		3
³ Technical Elective		3
⁴ Departmental Electives		6
² Arts and Humanities Elective*		3
² Social Sciences Elective*		3

REVISE BIOMEDICAL ENGINEERING MAJOR—HONORS CONCENTRATION

In addition to satisfying the requirements for the biomedical engineering major, candidates for the honors concentration must also complete the following requirements.

- First-year courses for honors concentrations in the engineering majors. (Note: Most of the honors requirements are course substitutions for the biomedical engineering major.)
- Two upper-division honors courses in biomedical engineering (BME 367, BME 477). ~~via Honors-by-Contract or Honors Independent Study. If participating in only the Chancellor's Honors Program, the Honors-by-Contract paperwork goes to the Chancellor's Honors Office on campus during the first 10 days of the semester. If participating in Engineering Honors and not Chancellor's Honors, the Honors-by-Contract paperwork is submitted the first 10 days of the semester to the engineering major department. If participating in both Chancellor's and Engineering Honors, the Honors-by-Contract paperwork is submitted to both areas.~~
- A minimum of 3-credit hours of an honors senior design course. This requirement is normally satisfied as part of the senior capstone design course (BME 469).

REVISE MECHANICAL ENGINEERING MAJOR

Third Year

ME 331, ME 344, ME 345, ME 363	or ME 367	ME 366, ME 466	18
ECE 301			3
³ Departmental Elective			3
AE 341	or AE 347		3
ME 391	or ME 397		3

Fourth Year

ME 410*(OC), ME 475 or ME 477, ME 449*(WC), ME 450, ME 460	13
EF 402	1
ME 365 or ME 463	3
⁴ Technical Elective	3
³ Departmental Electives	6
² Social Sciences Elective*	3
² Arts and Humanities Elective*	3

REVISE MECHANICAL ENGINEERING MAJOR—HONORS CONCENTRATION

In addition to satisfying the requirements for the mechanical engineering major, candidates for the honors mechanical engineering concentration must also complete the following requirements.

- First-year courses for honors concentrations in the engineering majors. (Note: Most of the honors requirements are course substitutions for the mechanical engineering major.)
- Two upper-division honors courses in mechanical engineering (ME 367, ME 397, ME 477). ~~via Honors-by-Contract or Honors Independent Study. If participating in only the Chancellor's Honors Program, the Honors-by-Contract paperwork goes to the Chancellor's Honors Office on campus during the first 10 days of the semester. If participating in Engineering Honors and not Chancellor's Honors, the Honors-by-Contract paperwork is submitted the first 10 days of the semester to the engineering major department. If participating in both Chancellor's and Engineering Honors, the Honors-by-Contract paperwork is submitted to both areas.~~
- A minimum of 3-credit hours of an honors senior design course. This requirement is normally satisfied as part of the senior capstone design course (ME 460).

DEPARTMENT OF NUCLEAR ENGINEERING**REVISE NUCLEAR ENGINEERING MAJOR****Third Year**

Cultures and Civilizations Elective*	3
NE 342 or NE 347, NE 351 or NE 357, NE 360, NE 362 or NE 367, NE 401*, NE 433, NE 470	21
PHYS 341	3
Social Sciences Elective*	3

Fourth Year

Cultures and Civilizations Elective*	3
EF 402	1
MSE 201	3
ME 321	3
NE 400*(OC), NE 402*(WC) or NE 427*(WC), NE 406 or NE 467, NE 472	11
Arts and Humanities Elective*	3
¹ Technical Electives	6

REVISE NUCLEAR ENGINEERING MAJOR—RADIOLOGICAL ENGINEERING CONCENTRATION**Third Year**

STAT 251	3
Cultures and Civilizations Elective*	3
NE 342 or NE 347, NE 351 or NE 357, NE 362 or NE 367, NE 401*, NE 433, NE 470	18
PHYS 341	3
Social Sciences Elective*	3

Fourth Year

Cultures and Civilizations Elective*	3
EF 402	1
ME 321	3
NE 400*(OC), NE 402*(WC) or NE 427*(WC), NE 406 or NE 467, NE 472, NE 490	14

Arts and Humanities Elective*

3

¹Technical Electives

6

REVISE NUCLEAR ENGINEERING MAJOR—HONORS CONCENTRATION

In addition to satisfying the requirements **described** for the nuclear engineering major, candidates for the honors program in nuclear engineering must also complete the following requirements.

- First-year courses for honors concentrations in the engineering majors. (Note: Most of the honors requirements are course substitutions for the nuclear engineering major.)
- Two upper-division honors courses in nuclear engineering (**chosen from NE 347, NE 357, NE 367, NE 427, NE 447, or NE 467**), via Honors-by-Contract or Honors Independent Study. ~~If participating in only the Chancellor's Honors Program, the Honors-by-Contract paperwork goes to the Chancellor's Honors Office on campus during the first 10 days of the semester. If participating in Engineering Honors and not Chancellor's Honors, the Honors-by-Contract paperwork is submitted the first 10 days of the semester to the engineering major department. If participating in both Chancellor's and Engineering Honors, the Honors-by-Contract paperwork is submitted to both areas.~~
- A minimum of 3-credit hours of an honors senior design course. This requirement is normally satisfied as part of their senior capstone design course (NE 472).

REVISE NUCLEAR ENGINEERING MAJOR—HONORS RADIOLOGICAL ENGINEERING CONCENTRATION

In addition to satisfying the requirements **described** for the nuclear engineering major, candidates for the honors program in nuclear engineering must also complete the following requirements.

- First-year courses for honors concentrations in the engineering majors. (Note: Most of the honors requirements are course substitutions for the nuclear engineering major.)
- Two upper-division honors courses in nuclear engineering (**chosen from NE 347, NE 357, NE 367, NE 427, NE 447, or NE 467**), via Honors-by-Contract or Honors Independent Study. ~~If participating in only the Chancellor's Honors Program, the Honors-by-Contract paperwork goes to the Chancellor's Honors Office on campus during the first 10 days of the semester. If participating in Engineering Honors and not Chancellor's Honors, the Honors-by-Contract paperwork is submitted the first 10 days of the semester to the engineering major department. If participating in both Chancellor's and Engineering Honors, the Honors-by-Contract paperwork is submitted to both areas.~~
- A minimum of 3-credit hours of an honors senior design course. This requirement is normally satisfied as part of their senior capstone design course (NE 472).

COLLEGE OF NURSING**All changes effective Fall 2012****PART I: COURSE CHANGES****(720) (NURS) Nursing**

ADD

347 Honors: Transcultural Nursing (2) Honors version of 341. Focus on cultural perspectives in health and illness. Discussion of diversity and influence of culture on health promotion, maintenance, and restoration across the lifespan. Students work with course faculty and/or faculty mentor to develop a significant course project/presentation.

Registration Restriction(s): Bachelor of Science in Nursing-nursing major; admission to Chancellors Honors, Haslam Scholars, or College of Nursing Honors Program; minimum student level – junior.

377 Honors: Professional Development in Nursing (2) Honors version of 381. Emphasis on development of personal attributes necessary for professional practice such as: emotional intelligence, caring critical thinking, decision making, problem solving, motivation and management of time, stress, and anger. Students work with course faculty and/or faculty mentor to develop a significant course project/presentation.

(RE) Prerequisite(s): 311, 319, 333, 347.

(RE) Corequisite(s): 351, 361, 382.

Registration Restriction(s): Bachelor of Science in Nursing-nursing major; admission to Chancellors Honors, Haslam Scholars, or College of Nursing Honors Program; minimum student level – junior.

387 Honors: Health Promotion and Maintenance in the Community (5) Honors version of 382. Focus on nursing care of at-risk populations in the community and national health promotion objectives. Students work with course faculty and/or faculty mentor to develop a significant course project/presentation.

(RE) Prerequisite(s): 311, 319, 333, 347.

(RE) Corequisites): 351, 361, 381.

Registration Restriction(s): Bachelor of Science in Nursing-nursing major; admission to Chancellors Honors, Haslam Scholars, or College of Nursing Honors Program; minimum student level – junior.

388 Nursing Honors Mentorship (1) An individualized course in which the student collaborates with a faculty mentor to create a program of learning which supports academic and professional goals.

Repeatability: May be repeated once.

Registration Restriction(s): Bachelor of Science in Nursing-nursing major; admission to Chancellors Honors, Haslam Scholars, or College of Nursing Honors Program; minimum student level – junior.

488 Nursing Honors Capstone (1) An individualized senior level course conducted the guidance of the honors students' faculty mentor. The capstone project will demonstrate scholarship, basic understanding of the research process and relevance to professional trends and issues.

Repeatability: May be repeated once.

Registration Restriction(s): Bachelor of Science in Nursing-nursing major; admission to Chancellors Honors, Haslam Scholars, or College of Nursing Honors Program; minimum student level – senior.

REVISE DESCRIPTION, REVISE REGISTRATION RESTRICTION

477 Honors Nursing Research (3) Introduction to research design and methodologies. Critique of nursing research studies for application to evidence-based nursing practice. Includes a substantial scholarly senior project to be conducted with approval of faculty mentor. Students are required to share their project in a public forum.

Registration Restriction(s): Bachelor of Science in Nursing-nursing major; admission to Chancellors Honors, Haslam Scholars, or College of Nursing Honors Program; minimum student level – senior.

Formerly: Introduction to research design and methodologies. Critique of nursing research studies for application to evidence-based nursing practice. Includes a substantial, scholarly senior project to be conducted with approval of an advisor within the department. Students in the Chancellor's Honor Program are required to share their senior project in a public forum.

Registration Restriction(s): Nursing major; minimum student level — senior; qualification — admission to Chancellor's Honors Program.

PART II: PROGRAM CHANGES

ADD COLLEGE TEXT (ADD HONORS PROGRAM AFTER GRADING AND CONTINUATION POLICIES)

College of Nursing Honors Program

The Nursing Honors Program will complement the Chancellor's Honors Program and provide for the 2+2 design of the university program. Students can continue in the Nursing Honors Program after their first two years in the Chancellor's Honors Program. Students entering upper division who have not been in the Chancellor's Honors Program can apply for acceptance into the Nursing Honors Program for their junior and senior years. In addition to continuing Chancellor's Honors students, a maximum of 10% of the junior class may be admitted to the Nursing Honors Program through an application/acceptance process. Students will be able to take 11-14 credits in upper division nursing honors courses, depending on the courses they select. The difference in the total will allow for student options depending on the number of credits completed toward the 25 credits required for the Chancellor's Honors Program during their first two years as freshmen and sophomores. For the Nursing Honors Program only, a student must complete a minimum of 11 credits in honors courses.

Requirements	Hours Credit
NURS 347	2
NURS 377 or NURS 387	2-5
NURS 477	3
NURS 387	2
NURS 477	2
	Total 11-14

REVISE COLLEGE TEXT (GRADING AND CONTINUATION POLICIES)

3. No nursing course may be repeated more than once (exception: NURS 496 may be repeated twice to earn a passing grade). If a C-, D, F, or NC grade is earned on the second attempt the student will be required to withdraw from the program.
4. Any student who receives a grade of C-, D, F, or NC for more than one nursing course will be required to withdraw from the program even if the previous course for which C-, D or F was awarded has been repeated with a grade of C or higher (exception: NURS 496 may be repeated twice to earn a passing grade).
9. At periodic intervals specified by the faculty, students must take comprehensive examinations designed to predict success on the NCLEX (licensure) examination. Any student scoring less than 850 at the end of the junior year must take a one-hour independent study course during the summer before starting the senior clinical courses. Seniors will have two opportunities to achieve 850 on an exit exam given prior to graduation. A student who does not score 850 on the second exit exam at the end of spring term will be given a grade of Incomplete in NURS 496 (Preparation for Professional Practice). The student will be given the opportunity to remediate and take a third exit exam no sooner than six weeks after the second exit exam. If the student does not score 850 on the third exit exam, the student will receive a failing grade for 496 and may be eligible to retake 496 in the fall term. ~~If a failure of 496 is a second failure in the nursing program for this student, then the student is dismissed from the BSN program.~~ In the event that a student has failed NURS 496 twice, the Academic Review Committee will review the student data and make recommendations to the dean regarding the student's standing in the program.

COLLEGE OF SOCIAL WORK

All changes effective Fall 2012

PART I. COURSE CHANGES

(905) (SOWK) Social Work

ADD

484 Social Work Experience for International Students (6-12) Exploration of local social welfare structures and services for international students. Opportunity to engage in non-clinical, community-based learning about social justice and human rights issues affecting professional social work.

Comment(s): International social work exchange students only.

Registration Permission: Consent of BSSW program director.

ADD (RE) COREQUISITE

483 Social Work Field Practice (1-12)

(RE) Corequisite(s): 460 or 467.

DROP (RE) PREREQUISITE, REVISE (RE) COREQUISITE

460 Integrative Seminar (3)

(RE) Corequisite(s): 481 or 483.

Formerly: (RE) Prerequisite(s): 410 and 480.

(RE) Corequisite(s): 481.

467 Honors: Integrative Seminar (3)

(RE) Corequisite(s): 481 or 483.

Formerly: (RE) Prerequisite(s): 417 and 480.

(RE) Corequisite(s): 481.

PART II. PROGRAM CHANGES

REVISE SOCIAL WORK MAJOR

Fourth Year

SOWK 410 or SOWK 417	3
SOWK 416	3
SOWK 480 and SOWK 481; or SOWK 483	12
SOWK 460 or SOWK 467	3
Electives	9

¹ Students are required to complete a two-course sequence in a foreign language at the intermediate level. **ASL 211** ~~EL-223~~ – Intermediate American Sign Language I and **ASL 212** ~~EL-226~~ – Intermediate American Sign Language II will fulfill the foreign language requirement but will not meet the University General Education Requirement.

FIRST YEAR STUDIES PROGRAM

All changes effective Fall 2012

PART I: COURSE CHANGES

(FYS) First-Year Studies

REVISE DESCRIPTION, DROP REGISTRATION RESTRICTION

101 First-Year Studies (1) Transition from high school to college and Integration into the academic community, including the nature and purpose of a college education, expectations for academic success, organization of university disciplines, and special emphasis on academic and career planning. Restricted to freshmen students.

Formerly: Integration into the academic community, including the nature and purpose of a college education, expectations for academic success, organization of university disciplines, and special emphasis on academic and career planning.

Registration Restriction(s): Freshmen only.

129 Freshman Seminar (1) Small, academic seminars that encourage the exchange of ideas between professors and students. Restricted to freshmen students. For a current list of course topics consult <http://www.utk.edu/freshmanseminar/>.

Formerly: Small, academic seminars that encourage the exchange of ideas between professors and students. For a current list of course topics consult <http://www.utk.edu/freshmanseminar/>.

Registration Restriction(s): Freshmen only.

UNIVERSITY HONORS PROGRAM

All changes effective Fall 2012

PART I. COURSE CHANGES

CHANCELLOR'S HONORS PROGRAM

(983) (UNHO) University Honors

ADD

101 Chancellor's Honors First-Year Seminar (1)

Required of and limited to first-year students in the Chancellor's Honors Program. Introductory seminar focused on a topic within an academic discipline. Topics vary.

Grading Restriction(s): A, B, C, No Credit grading.

102 Chancellor's Honors First-Year Enrichment (0) Required of and limited to first-year students in the Chancellor's Honors Program. Enrichment series focused on a co-curricular area within academics. Topics vary.

Grading Restriction: Satisfactory/No Credit grading only.

DROP

100 Chancellor's Honors First-Year Seminar (1)

Equivalency Table

Current Course University Honors (UNHO)	Equivalent Course Effective Fall 2012 University Honors (UNHO)
100	101
	102

REVISE TITLE

***257 Honors: Special Topics in the Arts and Humanities (3)**

Formerly: Special Topics in the Arts and Humanities

***267 Honors: Special Topics in the Social Sciences (3)**

Formerly: Special Topics in the Social Sciences

***277 Honors: Special Topics in Cultures and Civilizations (3)**

Formerly: Special Topics in Cultures and Civilizations

***287 Honors: Special Topics in the Natural Sciences (3)**

Formerly: Special Topics in the Natural Sciences

ADD AND REQUEST APPROVAL FOR VARIABLE TITLE

***258 Honors: Special Topics in the Arts and Humanities (3)** Examination of a selected issue in the arts and/or humanities from a multi-disciplinary perspective. Writing-intensive course. Topics vary.

Satisfies General Education Requirement: (AH) (WC)

Repeatability: may be repeated if topic differs. Maximum 6 hours.

(DE) Prerequisite(s): English 102 or English 118.

***268 Honors: Special Topics in the Social Sciences (3)** Examination of a selected issue in the social sciences from a multi-disciplinary perspective. Writing-intensive course. Topics vary.

Satisfies General Education Requirement: (SS) (WC)

Repeatability: may be repeated if topic differs. Maximum 6 hours.

(DE) Prerequisite(s): English 102 or English 118.

***278 Honors: Special Topics in Cultures and Civilizations (3)** Examination of a selected issue in cultures and civilizations from a multi-disciplinary perspective. Writing-intensive course. Topics vary.

Satisfies General Education Requirement: (CC) (WC)

Repeatability: may be repeated if topic differs. Maximum 6 hours.

(DE) Prerequisite(s): English 102 or English 118.

***288 Honors: Special Topics in the Natural Sciences (3)** Examination of a selected issue in the natural sciences from a multi-disciplinary perspective. Writing-intensive course. Topics vary.

Satisfies General Education Requirement: (NS) (WC)

Repeatability: may be repeated if topic differs. Maximum 6 hours.

(DE) Prerequisite(s): English 102 or English 118.

PART II. PROGRAM CHANGES

CHANCELLOR'S HONORS PROGRAM

REVISE CHANCELLOR'S HONORS PROGRAM REQUIREMENTS

Requirements

To supplement the requirements in their respective colleges, Chancellor's Honors students complete:

- ~~Two One-1-credit~~ University Honors seminars (UNHO ~~101 400~~ and UNHO 102).
- Seven 3-credit (or more) honors courses. These may include lower-level general education honors courses and upper-level honors courses. Only upper-level courses are eligible for the honors-by-contract option.¹
- One 3-credit Honors Thesis project (UNHO 498 or equivalent approved by CHP).

REVISE HASLAM SCHOLARS PROGRAM REQUIREMENTS

Required Courses

- HSP 195 Summer Leadership Program (1)
- UNHO ~~101 400~~ Chancellor's Honors First-Year Seminar (1)
- ~~UNHO 102 Chancellor's Honors First-Year Enrichment (0)~~
- ENGL 118 (3); or AP or dual enrollment credit. See The Chancellor's Honors description for more detail.
- HSP 197 Research for Nationally Competitive Scholarships (1)
- HSP 258 Foundations of Modernity (3) (AH)
- HSP 268 Perspectives on Globalization (3) (SS)
- HSP 288 Energy in the Modern World (3) (NS)
- HSP 348 Service Learning Project/Internship (3)
- HSP 491 Study Abroad Program (3)
- HSP 497 Honors Thesis I (3)
- HSP 498 Honors Thesis II (3)
- HSP 499 Senior Colloquium (1)

GENERAL EDUCATION COMMITTEE REPORT

December 7, 2011 Meeting Minutes**Subcommittee Reports**

- Communicating through Writing (Benson)
 - MLSL 303 (Leadership in Military History) was approved, effective Fall 2012.
 - University Honors proposed several writing intensive versions of current special topics courses (UNHO 257, 267, 277, 287). The courses were conditionally approved for Fall 2012, pending review and approval by the Curriculum Committee.
 - UNHO 258 (Special Topics in the Arts and Humanities—Writing Intensive)
 - UNHO 268 (Special Topics in the Social Sciences—Writing Intensive)
 - UNHO 278 (Special Topics in Cultures & Civilizations—Writing Intensive)
 - UNHO 288 (Special Topics in the Natural Sciences—Writing Intensive)
- Cultures and Civilizations (McAlpin)
 - No new proposals
 - Collins consulted with Tandy (former CC chair) to see how students who placed into the second intermediate foreign language course were handled in the past. The issue is whether or not these students should have to take another cultures and civilizations course to meet the two-course requirement or whether they could just make up the hours with electives. Both Tandy and McAlpin (new CC chair) agreed that students should be allowed to make up the hours with electives.
- Communicating Orally (Haas)—no new proposals
- Quantitative Reasoning (Collins)—no new proposals
- Social Sciences (Kurth)—no new proposals
- Arts and Humanities (Murphy)—no new proposals
- Natural Sciences (Heitmann)—no new proposals

High Demand Courses

- The Curriculum Committee and the General Education Committee were asked to consider a policy affecting how and when high demand courses could be changed. Overall consensus seems to point toward a recommendation rather than a mandate. Colleges are encouraged to communicate early and often when changes to high demand courses are being considered. Before any proposals are prepared, colleges should contact Cheryl Norris for an impact report that details every program in which the course appears. The college is responsible for notifying the affected units in a timely manner.

Petition Process

- Missy Parker and Chuck Collins will work on revising the petition form and guidelines to reduce confusion (i.e. combine the guidelines and the form into one document; note that existing courses are an automatic “no,” etc.).
- R.J. Hinde asked that the committee reconsider tying gen ed to a catalog year rather than when the course was approved. A subcommittee will be formed to look into it.

Differential Tuition

- The committee discussed whether or not non-business/engineering students should be charged differential tuition on business/engineering general education courses.

COSC 100 is not even required for computer science majors; it is strictly a service course.

- The Bursar noted that it would be incredibly difficult to remove the fees on COSC 100 without adversely affecting the other fee assessment rules. Essentially, the only way to accomplish it right now would be to manually remove the fees from each CRN every term.
- In the future, a section comment will be tied to every CRN carrying differential tuition so that students are aware of the additional fees on the front end (COSC 100, 102; ECON 201, 207; STAT 201, 207).

The committee will review all proposals for the upcoming catalog at the January 18th meeting.

January 18, 2012 Meeting Minutes

COURSE ADDS

WC—Communicating through Writing

- NE 427—Honors: Nuclear Engineering Laboratory (honors version of NE 402)
- MLSL 303—Leadership in Military History—The course was originally approved for Fall 2012. Since the course is being taught this term using the WC guidelines, it will count as WC credit for Spring 2012 as well.

OC—Communicating Orally

- BCMB 455—Scientific Communication

AH—Arts and Humanities

- UNHO 258—Honors: Special Topics in the Arts and Humanities

SS—Social Sciences

- EDPY 210—Psychoeducational Issues in Human Development
- GEOG 201—Concepts in Human Geography
- UNHO 268—Honors: Special Topics in the Social Sciences

CC—Cultures and Civilizations

- LAC 251—Introduction to Latin American and Caribbean Studies
- LAC 252—Introduction to Latin American and Caribbean Studies
- MRST 201—Medieval Civilization
- MRST 202—Medieval Civilization
- MRST 322—Medieval Philosophy
- UNHO 278—Honors: Special Topics in Cultures and Civilizations

NS—Natural Sciences

- ASTR 151/153—A Journey through the Solar System and Astronomy 151 Laboratory
- ASTR 152/154—Stars, Galaxies, and Cosmology and Astronomy 152 Laboratory
- UNHO 288—Honors: Special Topics in the Natural Sciences

COURSE DROPS

SS—Social Sciences

- GEOG 102—World Geography
- SOCI 117—Honors: Social Justice and Social Change

CC—Cultures and Civilizations

- LAMS 251—Introduction to Latin American Studies
- LAMS 252—Introduction to Latin American Studies
- MDST 201—Medieval Civilization
- MDST 202—Medieval Civilization
- MDST 322—Medieval Philosophy

NS—Natural Sciences

- ASTR 161—A Journey through the Solar System with Laboratory
- ASTR 162—Stars, Galaxies, and Cosmology with Laboratory

COURSE REVISIONS

- BIOL 101 (title, description)
- BIOL 102 (title, description)
- CHEM 120 (prerequisite)
- CLAS 232 (add cross-list)
- EF 151 (corequisite)
- EF 157 (corequisite)
- ENGL 131 (description, WC designation)
- ENGL 132 (description, WC designation)
- ENGL 118 (WC designation)
- ENGL 398 (repeatability)
- GEOG 101 (description, comment)
- HIST 255 (cross-list reference)
- HIST 256 (cross-list reference)
- IE 422 (recommended background, registration permission)
- MSE 489 (prerequisite, registration restriction)
- PHIL 322 (cross-list reference)
- SOCI 110 (title)
- SOCI 120 (title)
- SOCI 127 (title)
- UNHO 257 (title)
- UNHO 267 (title)
- UNHO 277 (title)
- UNHO 287 (title)

Procedural Changes

- In the interest of full disclosure, all proposals submitted to the subcommittees will be reported to the full committee and available for discussion.