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Graduate Council

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Graduate Council Minutes - April 21, 2005

Graduate Council

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THE UNIVERSITY OF TENNESSEE

Members Present

Vince Anfara, Brian Barber, Marianne Breinig, Ed Caudill, Charles Collins, Charles Feigerle, Paul Frymier, Tom George, Andrew Haddow, George Hoemann, Michael Keene, Barbara Klinkhammer, Jan Lee, Anne Mayhew, Mary McAlpin, Buddy Moore, Matthew Murray, Stefanie Ohnesorg, Mary Papke, Cheryn Picquet, Lloyd Rinehart, Otto Schwarz, Susan Smith, Handel Wright.

The Graduate Council meeting was called to order by Stefanie Ohnesorg, Chair, on Thursday, April 21, 2005, at 3:00 p.m. in the 8th Floor Board Room of Andy Holt Tower.

1. Minutes of the Preceding Meeting

The minutes of the March 3, 2005, meeting were approved.

2. Committee ReportsAcademic Policy Committee

Charles Feigerle, Academic Policy Committee Chair, presented the report from the April 7, 2005, meeting. The committee recommended that Council approve proposed changes to the Graduate Student Appeals Process. The Council approved the recommendations as well as the Bylaws and Operating Procedures for the Chair of Appeals of the Graduate Council (Attachment 1).

Credentials Committee

Mary McAlpin presented the report for Sally McMillan, Credentials Committee Chair, from the April 5, 2005, meeting. Council approved the requests for faculty to be approved to direct doctoral dissertations as listed (Attachment 2).

Curriculum Committee

Paul Frymier, Curriculum Committee Chair, presented the report from the April 7, 2005, meeting. The Council approved the recommendations as presented (Attachment 3).

Professional Development Committee

Anne Mayhew, Chair of the Professional Development Committee, presented the following report:

- Funding in the amount of \$200,000 was granted for the 2004-2005 Professional Development award year.
- At this time, thirty-nine Professional Development Awards have been offered.
- The award amounts given range in the amounts of \$1,000 to \$5,000.

- Funding in the amount of \$100,000 will be available for the 2005-2006 Professional Development Awards.

3. New Business

Postdoctoral Policy

Robert N. "Buddy" Moore, Associate Dean of Veterinary Medicine, presented a report on an evaluation of the postdoctoral experience at the University of Tennessee, Knoxville. An Ad-Hoc Committee, directed by Moore, developed a report and recommendations based on their evaluations. The members of the Postdoctoral Education Committee are Robert N. "Buddy" Moore, J. Douglas Birdwell, Christine R.B. Boake, Clark J. Brekke, William M. Dunne, William F. Harris, and Soren P. Sorensen. The committee discussed the role of postdoctoral scholars in the pursuit of advanced educational experiences to enhance their preparation for academic and/or research careers. These scholars provide major contributions to the research and scholarly missions of the university. Council expressed support for Anne Mayhew to take the Postdoctoral Program & Policy proposal to the Chancellor for further discussion (Attachment 4).

4. Administrative Reports and Announcements

Graduate Deans' Group

Mary Papke, Chair of the Graduate Deans' Group, reported the following information on upcoming changes related to the TOEFL exam:

- The test format will include speaking, will emphasize integrated skills, and provide better information about test takers' ability to communicate in an academic setting.
- Estimated start-up date for the internet-based TOEFL testing is September 2005.
- The TSE will continue to be available until the internet-based TOEFL testing is incorporated worldwide.

Graduate Dean

Anne Mayhew, Graduate Dean, reported that the graduate admission numbers for Fall 2005 are up over Fall 2004, along with acceptances. On June 6, 2005, the campus will go live with electronic processing of graduate admission applications using NOLIJ and an electronic work flow process. Mayhew also reported that departments are requested to submit data for the NRC survey by May 31, 2005.

Graduate Student Senate

Andrew Haddow, newly-elected President of the Graduate Student Senate, reported on the goals of the group for 2005-2006.

Report from Graduate Council Chair

Stefanie Ohnesorg, Graduate Council Chair, extended a thank you to the following Graduate Council Members and Proxies for their service to Graduate Council whose term ends July 31, 2005.

Arts & Sciences

Dr. Sherry Cable, Member	July 31, 2005
Dr. Warren Jones, Proxy	July 31, 2005
Dr. Otto Schwarz, Member	July 31, 2005

Business Administration

Dr. Ray DeGennaro, Member	July 31, 2005
Dr. Robert Bohm, Proxy	July 31, 2005

Communication & Information

Dr. Sally McMillan, Member	July 31, 2005
Dr. Ben Bates, Proxy	July 31, 2005

Education, Health & Human Sciences

Dr. Greer Fox, Member	July 31, 2005
Dr. Thomas Turner, Member	July 31, 2005
Dr. Songning Zhang, Proxy	July 31, 2005
Dr. Handel Wright, Member	July 31, 2005

An extended thank you was also extended to the following for their service to Graduate Council for the 2004-2005 Council Year:

- *Charles Feigerle, Former Graduate Council Chair, 2003 – 2004; & Graduate Council Member 2004 - 2005*
- *Anne Mayhew, Dean of Graduate Studies & Vice Chancellor of Academic Affairs*
- *Mary E. Papke, Associate Dean of Graduate Studies*
- *Rose Ann Trantham, Director of Graduate & International Admissions*
- *Kay Reed, Assistant to the Dean of Graduate Studies*
- *Tammy Barnhart, Program Resource Specialist, Graduate Student Services*

2004-2005 Graduate Council Report, Stefanie Ohnesorg – Review for the 2004-2005 Graduate Council Year can be reviewed at the Graduate Council website, <http://gradstudies.utk.edu/gcouncil.shtml>.

With no further business the meeting was adjourned at 4:20 p.m.

Respectfully Submitted,

Tammy L. Barnhart

Attachment 1 Graduate Council Appeal Procedure

General admission, continuation, and graduation requirements are established by the Graduate Council and administered and monitored by the Dean and the Associate Dean of Graduate Studies. Basic requirements of graduate education are outlined in the *Graduate Catalog*. Additional admission, continuation, and graduation requirements may be established by the department (program) and are made available through the department (program) office.

Graduate Student Rights

A graduate student is entitled (1) to be provided with a written statement of all university, college, and department requirements for continuation and graduation, and (2) to receive timely notification of the procedures and criteria for evaluation of academic performance, and the schedule and requirements for diagnostic, qualifying, comprehensive, and final examinations.

Graduate Student Responsibilities

A graduate student must abide by the Standards for Conduct outlined in *Hilltopics*. As *Hilltopics* specifies, “An essential feature of The University of Tennessee is a commitment to maintaining an atmosphere of intellectual integrity and academic honesty.” A graduate student is required to uphold these standards of integrity and honesty in all learning, teaching, and research. A graduate student can, in turn, expect the same degree of integrity and honesty from all teachers, mentors, and advisors.

Graduate Student’s Right of Appeal

A graduate student may appeal two types of academic decisions to the Graduate Council through the office of the Associate Dean of Graduate Studies. Students with grievances concerning the interpretation of and adherence to university, college, and department policies and procedures as they apply to graduate education should file a formal complaint with the Graduate Council through the office of the Associate Dean of Graduate Studies, but only after

grievances have been duly processed, without resolution, through appropriate appeals procedures at the department and college levels. An appeal of policies or procedures must be filed no later than 90 days after the incident that occasions the appeal.

Students with grievances concerning grades should file a formal complaint with the Graduate Council through the office of the Associate Dean of Graduate Studies, but only after grievances have been duly processed, without resolution, through appropriate appeals procedures at the department and college levels. Students may appeal academic performance evaluations only on the basis of one or more of the following allowable grounds: (1) A clearly unfair decision (such as lack of consideration of circumstances clearly beyond the control of the student, e.g., a death in the family, illness, or accident); (2) Unacceptable instruction/evaluation procedures (such as deviation from stated policies on grading criteria, incompletes, late paper examinations, or class attendance); (3) Inability of the instructor to deal with course responsibilities; or (4) An evaluative process in a setting or situation which makes performance extremely difficult. A grade appeal must be filed no later than 90 days after the final grade has been issued.

Students with grievances related to race, gender, religion, national origin, age, or handicap should file a formal complaint with the Office of Equity and Diversity with a copy to the appropriate academic department head.

Graduate Council Authority

The Graduate Council has authority to recommend (1) granting the appeal and suggesting instructions for resolving the grievance, (2) denying the appeal, or (3) remanding the case to the college or department. In all appeals to the Graduate Council, the decision of the Dean of Graduate Studies in consultation with the Graduate Council appeals hearing panel is final.

The Appeals Procedure

The student with a grievance to be appealed concerning grades, policies, or procedures must first follow the existing departmental procedure. At a minimum, the student must confer with the appropriate faculty member, advisor and/or major professor, the Graduate Liaison, and then, if the issue remains unresolved, with the department head. If the appeal is denied or is determined to be outside the purview of the department, the student may appeal in writing to the

dean of the college within 30 days of the departmental decision. If the student wishes to appeal the decision of the college, he or she may file a formal appeal with the Associate Dean of Graduate Studies within 30 days of the college decision. The formal appeal to the Associate Dean of Graduate Studies must include the following:

1. Name of student filing the appeal.
2. Program in which the student is enrolled.
3. Name of student's major advisor.
4. Current contact information for the student.
5. Name and position (title and relationship to student) of the person(s) to whom the original appeal was made.
6. Copies of the original statement of appeal, supporting documents clearly stating the reasons on which the appeal is based, and a statement of what remedy is being sought.
7. Copies of all official statements concerning the grievance proceedings held at the departmental and college levels and the decisions rendered in these earlier appeals, including the response by the person(s) to whom the appeal was first made.
8. Statement of why the previous decisions are in error.

It is the student's responsibility to make the case for the appeal. That is, the student should clearly indicate in the matter of a grade appeal one or more of the allowable reasons for appeal listed above and in the matter of an appeal of policies and procedures one or more indications of how proper policy or procedure was not followed.

To initiate the formal appeals procedure at the Graduate Council level, the student must submit a letter of appeal containing all the above information to the Associate Dean of Graduate Studies with copies to the department head and dean of the student's college. The Associate Dean will promptly forward the material to the Chair of Appeals of the Graduate Council. The Chair of Appeals will then appoint two other members of the Graduate Council to serve on an appeals panel, will distribute all materials to these members of the Appeals panel, and will convene the members at the earliest opportunity. The Appeals panel will at this meeting record by majority vote whether or not a hearing concerning the appeal should be held and immediately notify the Associate Dean of Graduate Studies of its decision. The Associate Dean will review

the appeal documents and notify the Dean of Graduate Studies whether or not a hearing is mandated.

Composition of Appeals Hearing Panel

The Dean of Graduate Studies appoints for each mandated hearing a hearing panel of five members, four of whom are elected members of the Graduate Council and the fifth the graduate student representative to the Council or her/his designee. Each panel is comprised of members not of the same college as the student filing the appeal. The Dean will send a specific charge to the hearing panel, defining the subject matter of the appeal, that may indicate the need for a de novo review of the merits of the grievance. The Chair of Appeals of the Graduate Council will facilitate the meeting of the hearing panel but will not vote on the matter.

The Appeals Hearing

The Chair of Appeals will schedule a hearing normally within 30 days of the Dean's appointment of a hearing panel and will distribute material to all members of the panel. The parties involved in the appeal are entitled to the following procedural rights: (1) a written notice of the time and place of hearing, and (2) the opportunity to present all pertinent evidence, including witnesses. The student involved in the appeal may be assisted at the hearing by a member of the faculty or a student representative of choice.

The hearing panel may require the student and appropriate university officials to provide, in advance of the hearing, further written statements, records, reports, and other documentation bearing on the issue under consideration.

The hearing panel will (1) conduct a hearing in closed session, (2) prepare a summarized record of the entire hearing to be forwarded to the Dean and presented to the Graduate Council, (3) make findings of facts and a recommendation concerning disposition of the appeal to the Dean and the Graduate Council, and (4) maintain a recording of the entire hearing.

At the next appropriate meeting of the Graduate Council, the Chair of Appeals will review the summarized record of the hearing together with findings and recommendations of the hearing panel as an information item.

The hearing panel will make its recommendation on the appeal, forwarding all supporting documents, to the Dean of Graduate Studies within 10 working days of the hearing. The Dean

will review all documents with the Associate Dean of Graduate Studies and either accept or reject the panel's recommendation. The Dean's decision and reasons for it, as well as any action that should be taken, will be sent to all involved parties within 10 working days of the Dean's receiving the recommendation. The Dean's decision is final.

**CHAIR OF APPEALS
OF
THE GRADUATE COUNCIL**

BY-LAWS AND OPERATING PROCEDURES

Dated 22 February 2005

FUNCTION

The Chair of Appeals serves as a representative of the Graduate Council in the consideration of appeals from graduate students concerning a grievance that has been unresolved at the department and college levels. Appeals may involve the interpretation of and adherence to university, college, and department policies and procedures as they apply to graduate education and the issuance of grades based on specific allowable reasons stipulated in the Graduate Council Appeal Procedure. The Chair does not consider grievances related to race, gender, religion, national origin, age or handicap; such grievances are handled by the Office of Equity and Diversity.

CHAIR

The Chair of the Graduate Council appoints the Chair of Appeals from the Graduate Council membership. The Chair of Appeals has the responsibility of appointing appeals panel members to review appeals to determine whether or not an appeals hearing is mandated. The Chair of Appeals also facilitates all meetings of hearing panels but does not vote in those hearings.

SELECTION OF MEMBERS OF APPEALS PANELS

The Chair of Appeals selects two elected members of the Graduate Council to serve on each appeal panel to determine whether or not a full hearing should be mandated. The Chair has the right of vote in each appeal panel meeting.

MEETINGS

The Chair of Appeals convenes a meeting of each appeal panel at the earliest opportunity. The Chair of Appeals will also convene an appeals hearing at the earliest opportunity after receiving a specific charge concerning the appeal from the Dean of Graduate Studies.

PROCEDURES TO HANDLE APPEALS

The chair will follow the Graduate Council Appeal Procedure, as established by Graduate Council on April 21, 2005. This procedure is published and distributed by the Office of Graduate Student Services and is available at <http://gradstudies.utk.edu/GraduateCouncil/AcadPoli/appealprocedure.pdf>. Following an appeals hearing, the Chair of Appeals reviews the summarized record of the hearing together with findings and recommendations of the hearing panel and presents these to the Dean. The Dean of Graduate Studies after consideration of the appeals hearing recommendation makes the final decision regarding an appeal and notifies the student, the Dean of the College, and the Department Head, in writing, of that decision. The Chair

of Appeals will present a summary of actions as an information item at the next appropriate meeting of the Graduate Council after the decision has been transmitted to all involved parties.

REPORTS

Reports of appeals decisions are maintained in the Office of Graduate Student Services in the records of the Graduate Council.

New copy for *Graduate Catalog* under **Appeals Procedure**, p. 31.

The Graduate Council Appeal Procedure can be obtained at the Office of Graduate Student Services or at <http://gradstudies.utk.edu/GraduateCouncil/AcadPoli/appealprocedure.pdf>. Normally, grievances should be handled first at the department level through the student's academic advisor, the graduate liaison, or the department or program head. Further appeal may be made to the dean of the respective college, the Graduate Council through the Associate Dean of Graduate Studies, and ultimately to the Dean of Graduate Studies.

Appeals may involve the interpretation of and adherence to university, college, and department policies and procedures as they apply to graduate education and the issuance of grades based on specific allowable reasons stipulated in the Graduate Council Appeal Procedure.

Appeal procedures in regard to allegations of misconduct or academic dishonesty are presented in *Hilltopics* under "Disciplinary Regulations and Procedures." Students with grievances related to race, sex, color, religion, national origin, age, disability or veteran status should file a formal complaint with the Office of Equity and Diversity.

22 February 2005

Rationale for proposed changes in the Graduate Council Appeals Procedure

- 1) Currently, graduate students cannot appeal grade decisions of any sort to the Graduate Council but only through department appeals. The revised procedure offers the same right of appeal on grade decisions as that offered to undergraduate students. Grade appeals are limited to very specific circumstances and do not include the evaluation of course work or examinations.
- 2) The current policy has no provision for consideration of the validity or timeliness of an appeal—that is, whether the student has attempted resolution of the problem on the departmental and then the college levels as well as whether the appeal is the type adjudicated by the Graduate Council rather than the Office of Equity and Diversity or the Office of Student Affairs.
- 3) Currently, because of the unclear route of appeal, graduate students seeking redress commonly appeal directly to the Dean of Graduate Students first, thus drawing the Dean into the appeal procedure at too early a stage. The Dean should be kept in the appellate position and so remain neutral on the appeal in question until the Graduate Council verifies that an appeal should be heard and then sends forward a recommendation of action.
- 4) The proposed procedure outlines a clear route of appeal and directions on making an appeal to the Graduate Council through the office of the Associate Dean of Graduate Studies. This new procedure is patterned on those of other major research institutions and protects both the rights of students and faculty by stipulating more clearly what sort of problems may be appealed and how that appeal should be made.
- 5) The proposed procedure frees up members of the Graduate Council to work on other committees, rather than serving on a standing committee of appeals, and allows the Chair of Appeals and the Dean to appoint appeal panels and hearing panels without conflicts of interest.

Respectfully submitted,

Associate Dean Mary E. Papke

**Attachment 2
Credentials Committee Report**

INITIAL Approval of Tenure-Track Faculty without Tenure (Probationary)
Approved Until Tenure

Albright, Kendra, Assist. Professor	Communication & Information
Harper, Janice, Assist. Professor	Anthropology
Taylor, P. Mark, Assist. Professor	Theory & Practice in Teacher Education

CONTINUING Approval of Faculty with Tenure
Approved for 10 years

Brockett, Ralph, Professor	Educational Psychology & Counseling
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Attachment 3**MASS REVISION OF PREREQUISITES, COREQUISITES,
REGISTRATION RESTRICTIONS****PREREQUISITES AND COREQUISITES**

Registration for Fall 2006 will enforce two prerequisites and two corequisites. Prerequisites and corequisites must be course numbers, not statements.

Prerequisites for all graduate and undergraduate courses are being revised.

Since fall registration will occur in the spring (before the 2006 catalogs are printed), revised prerequisites/corequisites will be posted on the Web.

REGISTRATION RESTRICTIONS

Registration may be restricted to a minimum GPA, minimum student level, or a specific qualification such as teacher licensure.

Registration may also be restricted to a college, major, concentration and/or degree or can exclude any of these.

If a student's registration is blocked due to a prerequisite or registration restriction, the system will display the following message:

Prerequisite not met. Contact the department.

(Departmental contact information will be included in the message.)

**College of Agricultural Sciences and Natural Resources
Graduate Courses**

Effective: Fall 2006

*Enforced by registration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(042) Ag/ Ext Ed							
	440						
	450						
	500						Master of Science - Agricultural and Extension Education major
	501						
	502						
	511						
	521	511					
	522						
	524						
	525					R - 435, 436 O - Registration Permission: Consent of instructor	
	526						
	527						
	530						
	532						
	592						
	593						
(047) Ag Econ							
	412						
	420						
	430						
	442						
	450						
	470						
	500						Master of Science - Agricultural Economics major
	502						
	503						
	505					R - calculus and intermediate microeconomics courses	
	520						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	524					R – calculus and statistics courses	
	525					R – calculus and intermediate microeconomics courses	
	530						
	542	505	OR 503				
	550	505	OR 503				
	570					R – advanced microeconomics course	
	593						
	595						
	670					R – advanced microeconomics course	
(088) Ag/Nat Re							
	491					O-Registration Permission: Consent of instructor	
	507					O- Registration Permission: Consent of instructor	
	512					O- Registration Permission: Consent of instructor	
(113) Animal Sci							
	420					R – eight hours of biology or animal physiology, anatomy and reproduction courses	
	430					R – eight hours of biology or animal physiology, anatomy and reproduction courses	
	481					R – eight hours of biology or animal physiology, anatomy and reproduction courses	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	482					R – eight hours of biology or animal physiology, anatomy and reproduction courses	
	483					R – eight hours of biology or animal physiology, anatomy and reproduction courses	
	484					R – eight hours of biology or animal physiology, anatomy and reproduction courses	
	500						Master of Science - Animal Science major
	502					O- Registration Permission: Consent of department head	
	507					O- Registration Permission: Consent of department head	
	511					O- Registration Permission: Consent of department head	
	520						
	523					R – eight hours of biology courses and a course in animal reproduction	
	530					R - eight hours of biology courses and a course in animal nutrition	
	535	530					
	571	Plant Sciences 461	OR Statistics 531				
	572	571					
	596						
	600						PhD – Animal Science major
	621						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	631						
	651						
	652	520					
	681						
	696						
(196) Bios Engr							
	411	Mechanical Engineering 231	& Mechanical Engineering 321				
	416	Civil Engineering 390	OR Aerospace Engineering 341				
	431	Biosystems Engineering 321					
	451	Electrical Engineering 301					
	500						Master of Science – Biosystems Engineering major
	502						
	503	See Primary					
	519					R - graduate standing in engineering	
	525	See Primary					
	530					O- Registration Permission: Consent of instructor	
	532					R - bioprocess engineering	
	541						
	543					R - 451 or a circuits course	
	545					R - hydrology	
	550						
	552	See Primary					
	555					R - graduate standing in engineering, biology, or physical science	
	575	See Primary					
	591					O- Registration Permission: Consent of instructor	
	600						PhD – Biosystems Engineering major
	603	See Primary					
	619	519				R - differential equations	
	636	555					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	650						
(194) Bios Engr Technology							
	422	Physics 101	OR Physics 221				
	432	Mathematics 123	OR Mathematics 125				
	442	Mathematics 123	OR Mathematics 125				
	452	Mathematics 123	OR Mathematics 125				
	462	Mathematics 123	OR Mathematics 125				
	500						Master of Science – Biosystems Engineering Technology major
	502						
	503	See Primary					
	506						
	508					O- Registration Permission: Consent of instructor	
	514						Minimum student level: Graduate
	522						
	532	See Primary					
	534						Minimum student level: Graduate
	542	506					
	546	506					
	555	See Primary					
	562						
	574			506		R - basic hydrology	Minimum student level: Graduate
(341) Ent/PI Path							
	410						
	451						
	500						Master of Science – Entomology and Plant Pathology major
	502						
	505						
	507	See Primary					
	512						
	513						
	514						
	515						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	520					O- Registration Permission: Consent of instructor R - Six hours of biology or botany courses	
	521						
	523						
	525						
	530						
	531						
	532						
	533						
	541						
	544					R - eight hours of biology or botany courses, and eight hours of chemistry courses O- Registration Permission: Consent of instructor	
	545					R - Eight hours of biology or botany courses, and 8 hours of chemistry courses O- Registration Permission: Consent of instructor	
	548						
	550						
	600						PhD - Plants, Soils, and Insects major
	602						
	604						
	606						
	608						
	612						
	615						
	640						
	643						
(345) Envir/SSc							
	434	Chemistry 110	OR Chemistry 350				
	442	210					
	444	210	& Physics 221				
	462					R - computer proficiency	
	481						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	500						Master of Science – Environmental and Soil Sciences major
	502						
	503						
	511						
	512	442					
	513	434					
	514	210	& Physics 221				
	516	210					
	593					O- Registration Permission: Consent of instructor	
	600						PhD - Plants, Soils and Insects major
	601						
	603						
	613	513					
	614	516					
	615	512	OR 514				
(390) Food Sci/Tech							
	410						
	420						
	429						
	430						
	445						
	460						
	469						
	490						
	495						
	500						Master of Science – Food Science and Technology major
	501						
	502						
	503						
	507	See Primary					
	510						
	512						
	515						
	521						
	540						
	560						
	590						
	593						
	600						PhD – Food Science and Technology major
	601						
	620						
	640						
(396) Forestry							
	421						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	422						
	423	321					
	433	331	& 332				
	500						Master of Science – Forestry major
	502						
	511						Master of Science, Forestry major (restricted to non-thesis option students)
	512						Master of Science - Forestry major
	514						Minimum student level: Graduate
	515						Minimum student level: Graduate
	520						Minimum student level: Graduate
	521					O-Registration Permission: Consent of instructor R – basic understanding of polymer chemistry, engineering and physics	
	525					R – eight hours of biology or botany courses	
	530						Minimum student level: Senior
	540	Forestry, Wildlife and Fisheries 312	& Biology 240				
	550						Minimum student level: Senior
	580	Forestry, Wildlife and Fisheries 312					
	585	326	& 329				
	590					O- Registration Permission: Consent of instructor	
	593					O- Registration Permission: Consent of instructor	
	630	312					
(398) For/Wild/Fs	410	Forestry 317					
	416						
	520						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	535	Forestry, Wildlife & Fisheries 416					
	540						Master of Science – Forestry major or Wildlife & Fisheries Science major
	570					O- Registration Permission: Consent of instructor	
	590					O- Registration Permission: Consent of instructor	
	600						PhD – Natural Resources major
	601						Minimum student level: Graduate
	610						Minimum student level: Graduate
	612						Minimum student level: Graduate
(791) Plant Sc							
	410	Environmental and Soil Sciences 210	& Plant Sciences 330			A – Prereq: 220	
	427	226	& 210				
	429	226	& 210				
	432					O- Registration Permission: Consent of instructor	
	434	210	& Biology 112			A – Prereq: Biology 111	
	435						
	436						
	437	226	& 210				
	441	240	& Biology 112			A – Prereq: Biology 111	
	442	240	& Biology 112			A – Prereq: Biology 111	
	446	210	& 226				
	448					A – Prereq: Communication Studies 210 or 240	
	450						
	451	See Primary					
	454	353	OR Biology 240				
	457	Environmental and Soil Sciences 210					
	458	Environmental and Soil Sciences 210		457			

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	459	Environmental and Soil Sciences 210		457			
	480	280	& 380				
	485	380	& Computer Science 100				
	494						
	500						Master of Science – Plant Sciences major
	501						
	502						
	503						
	504						
	505						
	507	See Primary					
	513	See Primary					
	521	BCMB 321					
	522	BCMB 321					
	530	See Primary					
	532	BCMB 321					
	536						
	544	See Primary					
	545	See Primary					
	551	Plant Sciences 461	& Biology 240				
	561	Mathematics 125	OR Mathematics 152				
	571	See Primary					
	592						
	593						
	600						PhD – Plants, Soils and Insects major
	603						
	605						
	633	BCMB 521					
	643	See Primary					
	653	571	Biology 240				
(993) Wldlf/ Fish Sc Sc							
	440	Forestry, Wildlife & Fisheries 317					
	442	Forestry, Wildlife & Fisheries 317					
	443	Forestry, Wildlife & Fisheries 317					
	444	Forestry, Wildlife & Fisheries 317					
	445	Forestry, Wildlife & Fisheries 317					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & orOR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	500						Master of Science – Wildlife and Fisheries Science major
	502						
	512						Master of Science – Wildlife and Fisheries Science major
	515					O- Registration Permission: Consent of instructor	
	525						Minimum student level: Graduate
	530	444	OR 445				
	531						Minimum student level: Senior
	535					O- Registration Permission: Consent of instructor	
	540	444	OR 445				
	545	Animal Science 571	OR Statistics 538				
	546	Forestry, Wildlife & Fisheries 410	OR Geography 411				
	550						Minimum student level: Senior
	555						Minimum student level: Senior
	556	443					
	560					O- Registration Permission: Consent of instructor	
	593					O- Registration Permission: Consent of instructor	

**College of Architecture and Design
Graduate Courses**

Effective: Fall 2006

***Enforced by registration**

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or <u>OR</u>)	*Coreq	*Coreq (must indicate & or <u>OR</u>)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(133) Architecture							
	403						
	404	403					
	406						
	410						
	412						
	415						
	417						
	420	212	Or 402				
	425						
	432	231					
	433					O- Registration Permission: Consent of instructor	
	445	342	Or 346				
	463						
	473						
	500	580					
	502						
	503	402					
	504					O- Registration Permission: Consent of instructor	
	507	503					
	509			572			
	514						
	515			573			
	516						
	521			282			
	525						
	526					O-Registration Permission: Consent of instructor	
	528					O-Registration Permission: Consent of instructor	
	532					O-Registration Permission: Consent of instructor	
	545						Master of Architecture – Architecture major
	551						
	553					O- Registration Permission: Consent of instructor	
	562						
	571	282					Master of Architecture – Architecture major
	572	571		509			
	573	572		515			

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or <u>OR</u>)	*Coreq	*Coreq (must indicate & or <u>OR</u>)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	580	507					
	591						
	592						
	593						

**College of Arts and Sciences
Graduate Courses**

Effective: Fall 2006

*Enforced by registration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(022) Af/Af Am Studies							
	421						
	443	See Primary					
	450						
	452	See Primary					
	461						
	462	See Primary					
	463	See Primary					
	473						
	483						
	510						
(099) American Studies							
	423	See Primary					
	510						
(122) Anthropology							
	410	130					
	411	130					
	412	130					
	413	130					
	414	130					
	416	130					
	431	130					
	435	120				R-361	
	436	See Primary					
	442	See Primary					
	443	See Primary					
	444	See Primary					
	462	120					
	463	120					
	464	120					
	465	120					
	480	110					
	481	See Primary					
	482	See Primary					
	484	See Primary					
	485	480					
	490						
	494						Anthropology major
	500					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	501					O- Registration Permission: Consent of instructor	
	502						
	510					O-Registration Permission: Consent of instructor	
	511						
	512						
	515					O- Registration Permission: Consent of instructor	
	517						
	520						
	521						
	522						
	530						
	550						
	560						
	561						
	562	See Primary					
	563						
	564						
	565	See Primary					
	580						
	581	480					
	582	480					
	583	480					
	585						
	590					O- Registration Permission: Consent of instructor	
	591					O- Registration Permission: Consent of instructor	
	592					O- Registration Permission: consent of instructor	
	593					O- Registration Permission: Consent of instructor	
	600					O- Registration Permission: Consent of instructor	
	601						
	611						
	660						
	690						
	691						
	695					R-480 or human biology course	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(140) Art							
	481						
	482						
	484						
	499						
	502						
	507						
	591					O- Registration Permission: Consent of instructor	
	592						
	593						
	595						
(135) Art Ceramics							
	421	321	And 322				
	422	321	And 322				
	424	320					
	429	320					
	521						
	525						
	593						
	595						
	599						
(136) Art Des/Graphic							
	405					A-Coreq: 351, 356 O- Registration Permission: Consent of instructor	
	451	352					
	452	451					
	453	254				O- requires successful completion of any portfolio review	
	454	254					
	456	351	And 356				
	459					O-prereq determined by department for individual topic	
	550					R-MFA candidate	
	551						
	552						
	553					O- Registration Permission: Consent of instructor	
	593					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	595						
	599						
(137) Art Drawing							
	419					O- Registration Permission: Consent of instructor	
	511						
	512						
	593					O- Registration Permission: Consent of instructor	
	595						
	599						
(139) Art History							
	403						
	411						
	415						
	416						
	419						
	425						
	431						
	441						
	442						
	451						
	452						
	453						
	454	172	And 173				
	461						
	462						
	463						
	464						
	471						
	472						
	473						
	474	172	And 173				
	475						
	476						
	479						
	483						
	485	172	And 173				
	489					O- Registration Permission: Consent of instructor	
	571					R-MFA – Art major	
	572					R-MFA – Art major	
	573					R-MFA – Art major	
	574					R-MFA – Art major	
	575					R-MFA – Art major	
	576					R-MFA – Art major	
	579					R-MFA – Art major	
(134) Art Media Arts							
	431	331					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	433						
	435	235	And 330				
	436	236	And 330				
	439						
	441	341					
	442					A-Prereq: 342 O- Registration Permission: Consent of instructor	
	531						
	532						
	535						
	536						
	577						
	593						
	595						
	599						
(138) Art Painting							
	413	313					
	415	315					
	419					O- Registration Permission: Consent of instructor	
	513						
	514						
	515						
	516						
	593						
	595						
	599						
(132) Art Printmaking							
	461	361					
	469					O- Registration Permission: Consent of instructor	
	561						
	562	561					
	563	562					
	564	563					
	593						
	595						
	599						
(143) Art Sculpture							
	441					R-six hours 300- level sculpture courses	
	449						
	541						
	542						
	593						
	595						
	599						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(144) Asian Lang							
	431					R-mastery of intermediate-level Chinese	
	451					R-mastery of intermediate-level Japanese	
	452					R-mastery of intermediate-level Japanese	
(145) Asian Studies							
	471						
	510						
(144) Astronomy							
	411						
	490						
(160) Aud/Sp Path							
	431						
	433	300	And 320				
	434	433					
	435						
	440						
	455					O- Registration Permission: Consent of instructor	
	461						
	473	303					
	475					A-Prereq: 300 O- Registration Permission: Consent of instructor	
	494						
	500						
	502						
	506	306					
	507	473					
	511						
	512					A-Prereq: 546	
	515	473	And 494				
	516	506					
	518	506					
	519	518					
	522					R-Prereq: 435	
	523						
	526	506					
	527						Minimum student level: Graduate
	531					R-431	
	534						
	535						
	538						
	539	506					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	540	306	And 435				
	541	506					
	542	473					
	543	473	And 507				
	544	543					
	545						
	546						
	547	473					
	552						
	555						
	556						
	558	435					
	561	461					
	563	461					
	574						
	576	507	And 546				
	577	546	And 576				
	581	546	And 574			A-594	
	582						
	583	576					
	584	544	And 574				
	585	583					
	586	512					
	591						
	592						
	593						
	594	494					
	595	494					
	600						
	601	517					
	602	507					
	604	507					
	605						
	607	507					
	611					O- Registration Permission: Consent of instructor	
	613						
	626					A-Prereq: 518 and 539	
	650					O- Registration Permission: Consent of instructor	
	652					O- Registration Permission: Consent of instructor	
	655					O- Registration Permission: Consent of instructor	
	656					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	657					O- Registration Permission: Consent of instructor	
	658					O- Registration Permission: Consent of instructor	
	659					O- Registration Permission: consent of instructor	
	660					O- Registration Permission: Consent of instructor	
	661	561					
	662	574	And 576			A-Prereq: 577	
	663	544	And 594				
	664	584	And 594				
(188) BCMB							
	401						
	402						
	403						
	404						
	419						
	421						
	429						
	440						
	465						
	471						
	481						
	480	See Primary					
	500						
	502						
	511						
	512						
	513						
	515						
	516						
	517						
	520						
	522						
	523						
	525						
	530						
	550						
	552						
	560						
	561	See Primary					
	562						
	564						
	570						
	580						
	591						
	592						
	593						
	600						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	601						
	603						
	605						
	606						
	607						
	608						
	610						
	612	See Primary					
	615						
(235) Chemistry							
	430	230					
	450	360					
	471	See Primary					
	473	130	Or 138			A-Prereq: Math 241 or 247; Physics 136 or 138 or 222 or 231	
	481	See Primary					
	483	130	Or 138			A-Prereq: Math 241 or 247; Physics 136 or 138 or 222 or 231	
	479			471	Or 473		
	489			481	Or 483		
	500						
	501						
	502						
	505					O-Registration Permission: Consent of department head	
	510					O-Required background: two semesters of physical chemistry	
	511					O-Required background: two semesters of physical chemistry	
	512					O-Required background: two semesters of physical chemistry	
	530					O-Required background: one semester of inorganic chemistry	
	531					A-Required background: one semester of inorganic chemistry	
	532					O-Required background: one semester of inorganic chemistry	
	533					O-Required background: one semester of inorganic chemistry	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	550					O-Required background: two semesters of organic chemistry	
	551	550					
	552	550					
	553					O-Required background: two semesters of organic chemistry	
	554			553		A-Prereq: 360	
	570					O-Required background: two semesters of physical chemistry	
	571	570					
	572					O-Required background: two semesters of organic chemistry	
	573					O-Required background: two semesters of organic chemistry	
	590					O-Required background: two semesters each of organic and physical chemistry	
	594	590					
	595	590					
	600						
	601					O- Registration Permission: Consent of department head	
	610					A-Prereq: 510, 511, 512	
	630					A-Prereq: 530, 531, 532	
	650					A-Prereq: two of 550, 551, 552	
	670					A-Prereq: 570, 572, 573	
	690					O- Registration Permission: Consent of instructor	
	691					O- Registration Permission: Consent of instructor	
(249) Chinese							
	431	See Primary					
(251) Cinema Studies							
	400						
	420	See Primary					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	421	See Primary					
	433	See Primary					
	434	See Primary					
	465	See Primary					
	469	See Primary					
	489	See Primary					
	510						
(257) Classics							
	401	261					
	402	261					
	405	261					
	406	261					
	414	351	Or 352				
	431	351	Or 352				
	432	351	Or 352				
	435	351	Or 352				
	436						
	441						
	442						
	443						
	444						
	562						
	565						
(260) Comp Lit							
	401						
	402						
	452	See Primary					
	454	See Primary					
	510						
(266) Computer Science							
	420					O-Required background: completion of core courses	
	430					O-Required background: completion of core courses	
	460					O-Required background: completion of core courses	
	470					O-Required background: completion of core courses	
	471	See Primary					
	472	See Primary					
	480					O-Required background: completion of core courses	
	494						
	500						
	502						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	522					R-discrete structures course	
	525						
	530					R-architecture or machine organization courses	
	541					R-discrete structures course	
	551					R-discrete structures and probability or statistics courses	
	552					R-one year calculus and a discrete structures course	
	560					R-systems programming course	
	571	See Primary					
	572	See Primary					
	574	See Primary					
	575	See Primary					
	576					R-numerical linear algebra course	
	580					R-automata theory course	
	581					R-fundamental algorithms course	
	592						
	593						
	594						
	600						
	620					O- Registration Permission: Consent of instructor	
	650					O- Registration Permission: Consent of instructor	
	660					O-Registration Permission: Consent of instructor	
	670					O- Registration Permission: Consent of instructor	
	680					O- Registration Permission: Consent of instructor	
	690					O- Registration Permission: Consent of instructor	
(278) EEB							

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	410					A-Prereq: Biology 102 or 111 or 130	
	411					O - See Timetable for prerequisite(s)	
	412					O - See Timetable for prerequisites(s)	
	414					A-Prereq: Biology 111, and 112 or Biology 130 and Biology 140	
	419					R-introductory science or philosophy course	
	421	Biology 250					
	433	Biology 250					
	446	Chemistry 130	And Biology 250				
	450						
	459			450			
	460	Biology 240					
	461	Biology 250					
	465	Biology 140					
	470	Chemistry 130	And Biology 250				
	474	Biology 250					
	484	Biology 240	And Biology 250				
	500						
	502						
	503						
	504						
	508						Master of Science and PhD – Ecology and Evolutionary Biology major
	509						
	511						
	512						
	514						
	515						
	524	Biology 250	And BCMB 440				
	530	330					
	535						
	540						
	541						
	542						
	543						
	544						
	545	450					
	546	See Primary					
	547	See Primary					
	556						
	557						
	560						
	561	BCMB 410	And Chemistry 360				

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	575	Statistics 531	Or Statistics 537				
	577	Biology 250					
	581	See Primary					
	582	See Primary					
	583	Biology 250					
	585	See Primary					
	591						
	592						
	593						
	595	Biology 250					
	600						
	602						
	603						
	606						
	607						
	609						
	610						
	611						
	612						
	635						
	662						
	681	See Primary					
	682	See Primary					
(339) English							
	401						
	402						
	404						
	405						
	406						
	409						
	410						
	411						
	412						
	413						
	414						
	415						
	416						
	419						
	420						
	421						
	422						
	423						
	431						
	432						
	433						
	434						
	435						
	436						
	441						
	442						
	443						
	451						
	452						
	453						
	454						
	455						
	456						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	460						
	462						
	463						
	464						
	466						
	470						
	471						
	472						
	474						
	476						
	477						
	479						
	480						
	481						
	482						
	483						
	484						
	485						
	486						
	489						
	490						
	495						
	496						
	500						
	502						
	505						
	506						
	507						
	508						
	509						
	513						
	514						
	520						
	521						
	530						
	531						
	540						
	541						
	550						
	551						
	552						
	560						
	561						
	575						
	576						
	580						
	581						
	582						
	583						
	584						
	585						
	586						
	587						
	588						
	589						
	590						
	591						
	592						
	593						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	594						
	600						
	610						
	611						
	620						
	621						
	630						
	631						
	640						
	641						
	650						
	651						
	652						
	660						
	661						
	662						
	670						
	671						
	672						
	680						
	682						
	686						
	688						
	690						
	694						
(405) French							
	410					A-Prereq: 351 or 352	
	411					A-Prereq: 351 or 352	
	412					A-Prereq: 351 or 352	
	413					A-Prereq: 351 or 352	
	414					A-Prereq: 351 or 352	
	415					A-Prereq: 351 or 352	
	420					A-Prereq: 351 or 352	
	421					A-Prereq: 333	
	422					A-Prereq: 333	
	423					A-Prereq: 333	
	424					A-Prereq: 333	
	425					R-Linguistics 200	
	426	See Primary					
	429						
	430					A-Prereq: 351 or 352	
	431					A-Prereq: 351 or 352	
	432						
	434					A-Prereq: 351 or 352	
	445					A-Prereq: 345	
	500						
	501						
	502						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	510						
	512						
	515						
	519						
	520						
	530						
	540						
	550						
	560						
	570						
	573						
	580						
	584						
	591						
	592						
	593						
	594						
	595						
	600						
	610						
(415) Geography							
	410						
	411	310					
	412	310					
	413	310					
	414	411					
	415	Mathematics 115	Or Statistics 201				
	421						
	423						
	432	132					
	433	132					
	434	131					
	435	132					
	436	132					
	439	132					
	441						
	442						
	443						
	449						
	450	See Primary					
	454					A-Prereq: 131, 132 or Geology 101,102 or Geology 107, 108	
	466						
	495					O- Registration Permission: Consent of instructor	
	500						
	501						
	502						
	504						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	505					O- Registration Permission: Consent of instructor	
	506					O- Registration Permission: Consent of instructor	
	509					O- Registration Permission: Consent of instructor	
	510					O- Registration Permission: Consent of instructor	
	513	413					
	515					O- Registration Permission: Consent of instructor	
	517					O-Registration Permission: Consent of instructor	
	518					A- Prereq: 411	
	519					O-Registration Permission: Consent of department	
	521					O- Registration Permission: Consent of instructor	
	532					O- Registration Permission: Consent of instructor	
	533					O- Registration Permission: Consent of instructor	
	534	434					
	535					A-Prereq: 435	
	536					O Registration Permission: - Consent of instructor	
	541					A- Prereq: 441	
	545					O- Registration Permission: Consent of instructor	
	549					A-Prereq: 449	
	591					O- Registration Permission: Consent of department	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	592					O- Registration Permission: Consent of department	
	593					O- Registration Permission: Consent of department	
	599					O- Registration Permission: Consent of instructor	
	600						
	609					O-Registration Permission: Consent of instructor	
	611					A-Prereq: 517, 518	
	631					O- Registration Permission: Consent of instructor	
	632					A-Prereq: 432	
	633					A-Prereq: 533	
	634					A-Prereq: 534, 532	
	635					A-Prereq: 535	
	641					A-Prereq: 541	
	643					A-Prereq: 443	
	649					A-Prereq: 549	
	663					O- Registration Permission: Consent of instructor	
(424) Geology							
	401					O- Registration Permission: Consent of instructor	
	410					O- Registration Permission: Consent of instructor	
	411					O- Registration Permission: consent of instructor	
	412					O- Registration Permission: Consent of instructor	
	440					O- Registration Permission: Consent of instructor	
	450					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	455					O- Registration Permission: Consent of instructor	
	460					O- Registration Permission: Consent of instructor	
	470					O- Registration Permission: Consent of instructor	
	475					O- Registration Permission: Consent of instructor	
	480					O- Registration Permission: Consent of instructor	
	485					O- Registration Permission: Consent of instructor	
	486					O- Registration Permission: Consent of instructor	
	500					O- Registration Permission: Consent of instructor	
	501					O- Registration Permission: Consent of instructor	
	502					O- Registration Permission: Consent of instructor	
	505					O- Registration Permission: Consent of instructor	
	510					O- Registration Permission: Consent of instructor	
	530					O- Registration Permission: Consent of instructor	
						O- Registration Permission: Consent of instructor	
	535	See Primary					
	539					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	540					O- Registration Permission: Consent of instructor	
	544					O- Registration Permission: Consent of instructor	
	545					O- Registration Permission: Consent of instructor	
	546					O- Registration Permission: Consent of instructor	
	556	See Primary					
	557	See Primary					
	561					O- Registration Permission: Consent of instructor	
	563					O- Registration Permission: Consent of instructor	
	565					O- Registration Permission: Consent of instructor	
	568					O- Registration Permission: Consent of instructor	
	570					O- Registration Permission: Consent of instructor	
	572					O- Registration Permission: Consent of instructor	
	575					O- Registration Permission: Consent of instructor	
	576					O- Registration Permission: Consent of instructor	
	585					O- Registration Permission: Consent of instructor	
	586					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	590					O- Registration Permission: Consent of instructor	
	591					O- Registration Permission: Consent of instructor	
	592					O- Registration Permission: Consent of instructor	
	593					O- Registration Permission: Consent of instructor	
	595					O- Registration Permission: consent of instructor	
	596					O- Registration Permission: Consent of instructor	
	600					O- Registration Permission: Consent of instructor	
	630					O- Registration Permission: consent of instructor	
	640					O- Registration Permission: consent of instructor	
	650					O- Registration Permission: Consent of instructor	
	660					O- Registration Permission: Consent of instructor	
	670					O- Registration Permission: Consent of instructor	
	675					O- Registration Permission: Consent of instructor	
	685					O- Registration Permission: Consent of instructor	
(433) German							
	411					A-Prereq: 311, 312	
	412					A-Prereq: 311, 312	
	415					A-Prereq: 202	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	416					A-Coreq: 101, 102	
	419					A-Prereq: 301, 302	
	420					A-Prereq: 301, 302	
	425	See Primary					
	426					A-Prereq: 311, 312; 301 or 302	
	431					A-Prereq: 301, 302	
	432					A-Prereq: 301, 302	
	433					A-Prereq: 301, 302	
	434					A-Prereq: 301, 302	
	435					A-Prereq: 301, 312	
	436					A-Prereq: 301, 312	
	485					A-Prereq: 301, 312	
	494					O- Registration Permission: Consent of program chair A-Prereq: 411 or 485	
	500						
	502						
	510						
	512						
	519						
	541						
	550						
	552						
	553						
	554						
	555						
	556						
	560						
	561						
	562						
	591						
	592						
	593						
	600					O- Registration Permission: Consent of program chair	
	621						
	622						
	631						
	632						
(462) History							
	500						
	502						
	510						
	511						
	512						
	513						
	515						
	516						
	521						
	531						
	532						
	533						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	541						
	542						
	543						
	544						
	551						
	552						
	555						
	556						
	557						
	558						
	559						
	561						
	562						
	580						
	585						
	591						
	592						
	593						
	600						
	621						
	631						
	632						
	641						
	642						
	643						
	651						
	658						
(584) Italian							
	401						
	402						
	403						
	406						
	409						
	410						
	421						
	510						
	591						
	592						
	593						
(589) Japanese	451	See Primary					
	452	See Primary					
(595) Judaic Studies							
	405	See Primary					
	425	See Primary					
	431	See Primary					
(600) Lat Am Studies							
	456	See Primary					
	465	See Primary					
	479	See Primary					
	510						
(617) Legal Studies							

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	400	See Primary					
	430	See Primary					
	431	See Primary					
	435	See Primary					
	442	See Primary					
	445	See Primary					
	451	See Primary					
	455	See Primary					
	470	See Primary					
	490	See Primary					
	496	See Primary					
(621) Life Sciences							
	500						
	502						
	503						
	505						
	507						
	510						
	515						
	516						
	520						
	521						
	540						
	541						
	550	520	And 521				
	591						
	592						
	593						
	595						
	596						
	600						
	615						
	695						
	696						
(623) Linguistics							
	400						
	411	See Primary					
	423					R-Nine hours of courses required for linguistics major (300 or above)	
	425	See Primary					
	426	See Primary					
	429	See Primary					
	431	See Primary					
	435	See Primary					
	436	See Primary					
	471	See Primary					
	472	See Primary					
	474	See Primary					
	476	See Primary					
	477	See Primary					
	485	See Primary					
	490	See Primary					
	510						
	575	See Primary					
(641)							

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
Mathematics							
	400						
	401						
	403						
	404						
	405						
	411						
	421						
	423						
	424						
	425						
	431						
	435						
	443						
	445						
	446						
	447						
	448						
	453						
	455						
	456						
	457						
	458						
	460						
	461						
	471						
	472						
	475						
	490						
	499						
	500						
	502						
	504					R-one year of calculus	
	505					R-one year of calculus	
	506						
	507					R-one year of calculus	
	509					O- Registration Permission: Consent of instructor	
	510					A-Coreq: 511 or 512	
	511					A- Coreq: 445 or 447 and 453 and 510	
	512					A-Prereq: 511	
	513					A-Prereq: 431, 435, and 445-446 or 404	
	514					A-Prereq: 513	
	515					A-Prereq: 446 or 448 and either 511-512 or 431 and 435	
	516					A- Prereq: 515	
	517	See Primary					
	518	See Primary					
	519						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	521						
	522						
	523					A-Prereq: 445-446 R-423	
	524					A-Prereq: 523	
	525					A-Prereq: 445-446 R-425	
	526					A-Prereq: 525	
	527					A-Prereq: 445-446	
	529						
	531					A-Prereq: 231, 251 and 445-446	
	532					A-Prereq: 531	
	534					A-Prereq: 431	
	535					A-Prereq: 445-446	
	536					A-Prereq: 535	
	537					A-Prereq: 431, 435, 446 or 448	
	538					A-Prereq: 537	
	539						
	545						
	546						
	547					A-Prereq: 445-446	
	548					A-Prereq: 547	
	549						
	551					A-Prereq: 455-456	
	552					A-Prereq: 551	
	553					A-Prereq: 453 R-programming ability	
	554					A-Prereq: 553 R-445-446	
	555					A-Prereq: 455-456	
	556					A-Prereq: 555	
	559						
	561						
	562					A-Prereq: 561	
	567					A-Prereq: 445-446	
	568					A-Prereq: 567	
	569						
	571					A-Prereq: 445-446, 453, 471-472	
	572					A-Prereq: 571	
	574					A-Prereq: 435, 471, and either 453 or 472 R-445-446	
	575					A-Prereq: 453, 471- 472	
	577					A-Prereq: 453, 445- 446 R-numerical algorithms course	
	578					A-Prereq: 435 or 512 or 515 R-Fortran or C	
	579						
	581					A-Prereq: 431, 453	
	582					A-Prereq: 581	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	583					A-Prereq: 431, 453	
	585					A-Prereq: 431, 445-446	
	589						
	593						
	598						
	599						
	600						PhD – Mathematics major
	617					A-Prereq: 431, 435, 547, 571-572	
	619						
	623					A-Prereq: 523-524	
	624					A-Prereq: 623	
	629						
	631					A-Prereq: 531-532	
	632					A-Prereq: 631	
	635					A-Prereq: 541-542 or 547-548	
	636					A-Prereq: 635	
	641					A-Prereq: 541-542 A-Coreq: 543 or 443	
	642					A-Prereq: 641	
	643					A-Prereq: 541-542 and 543	
	644					A-Prereq: 643	
	649						
	651					A-Prereq: 551-552	
	652					A-Prereq: 651	
	659						
	661						
	662						
	663					A-Prereq: 561-562, 455-456 or 551-552 R-one year of abstract algebra	
	664					A-Prereq: 663	
	667					A-Prereq: 567-568	
	668					A-Prereq: 667	
	669						
	673					A-Prereq: 547-548, 573-574	
	679						
	681					A-Prereq: 581-582	
	682					A-Prereq: 681	
(674) Medieval Studies							
	401	See Primary					
	402	See Primary					
	431	See Primary					
	441	See Primary					
	451	See Primary					
	510						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(684) Microbiology							
	410	310					
	411	320					
	420	310					
	429	319	And 430	420			
	430	Biology 240					
	440	310					
	470	310					
	500						
	502						
	550	See Primary					
	575	See Primary					
	591						
	592						
	593						
	595						
	596						
	600						
	601						
	602						
	603						
	604						
	605						
	610	410					
	620	420	430				
	630	430					
	640	440					
	650	411					
	670					O- Registration Permission: Consent of instructor	
(707) Music Educ							
	510					O- Registration Permission: Consent of instructor	
	520					O- Registration Permission: Consent of instructor	
	550					O- Registration Permission: Consent of instructor	
	560					O-Registration Permission: Consent of instructor	
	570					O Registration Permission: - Consent of instructor	
	571					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	574					A- Coreq: 475, 575 O- Registration Permission: Consent of instructor and admission to teacher education program	
	575					O- Registration Permission: Consent of instructor and admission to teacher education program	
	580					O- Registration Permission: Consent of instructor	
	590					O- Registration Permission: Consent of instructor	
	591					A-575 O- Registration Permission: consent of instructor and admission to teacher education program	
	593					O-Registration Permission: Consent of instructor	
(708) Music Ensemble							
	502					O-Registration Permission: By audition or consent of instructor	
	503					O-Registration Permission: By audition or consent of instructor	
	504					O-Registration Permission: By audition or consent of instructor	
	505					O-Registration Permission: By audition or consent of instructor	
	506					O-Registration Permission: By audition or consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	510					O-Registration Permission: By audition or consent of instructor	
	511					O-Registration Permission: By audition or consent of instructor	
	515					O-By audition or consent of instructor	
	530					O-Registration Permission: By audition or consent of instructor	
	540					O-Registration Permission: By audition or consent of instructor	
	550					O-By audition or consent of instructor	
	552					O-Registration Permission: By audition or consent of instructor	
	553					O-Registration Permission: By audition or consent of instructor	
	554					O-Registration Permission: By audition or consent of instructor	
	559					O-Registration Permission: By audition or consent of instructor	
	570					O-Registration Permission: By audition or consent of instructor	
	580					O-Registration Permission: By audition or consent of instructor	
	583					O-Registration Permission: By audition or consent of instructor	
	589					O-Registration Permission: By audition or consent of instructor	
	599					O-Registration Permission: By audition or consent of instructor	
(698) Music General							

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	500						
	501						
	502						
	510						
	511						
	520					A-Prereq: Musicology 400 O- Registration Permission: Consent of instructor	
	521					O- Registration Permission: Consent of school director	
	540					O-Registration Permission: By audition	
(706) Musicology							
	410						
	420						
	430						
	450						
	460						
	480						
	540	400					
	550	400					
	560	400					
	570	400					
	580	400					
	585	400					
	586	400					
	590	400				R-380	
	593					A-Prereq: 400 O- Registration Permission: Consent of school director	
	595	400				O- Registration Permission: Consent of instructor	
	596	400					
(710) Music Instr							
	490						
	580						
	581						
	583					O- Registration Permission: Consent of instructor	
	584						
	590					O- Registration Permission: Consent of instructor	
	595						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(711) Music Jazz							
	410						
	420						
	520						
(712) Music Keyboard							
	410						
	420						
	430						
	460						
	470	460					
	480					O- Registration Permission: Consent of instructor	
	485					O- Registration Permission: Consent of instructor	
	490						
	491						
	495	485					
	520					O-Requires passing grade on diagnostic exam	
	531					O- Registration Permission: Consent of instructor	
	540					O- Registration Permission: consent of instructor	
	541					O- Registration Permission: Consent of instructor	
	560						
(713) Music Perf							
	403					O- Registration Permission: consent of instructor	
	404					O- Registration Permission: consent of instructor	
	405					O- Registration Permission: Consent of instructor	
	406					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	410					O- Registration Permission: Consent of instructor	
	411					O- Registration Permission: Consent of instructor	
	415					O- Registration Permission: Consent of instructor	
	416					O- Registration Permission: Consent of instructor	
	420					O- Registration Permission: Consent of instructor	
	421					O- Registration Permission: Consent of instructor	
	425					O- Registration Permission: Consent of instructor	
	426					O- Registration Permission: Consent of instructor	
	430					O- Registration Permission: Consent of instructor	
	431					O- Registration Permission: Consent of instructor	
	435					O- Registration Permission: Consent of instructor	
	436					O-Registration Permission: consent of instructor	
	440	430					
	441					O- Registration Permission: Consent of instructor	
	445					O Registration Permission: Consent of instructor	
	446					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	450					O- Registration Permission: Consent of instructor	
	451					O- Registration Permission: consent of instructor	
	455					O- Registration Permission: Consent of instructor	
	456					O- Registration Permission: Consent of instructor	
	460					O- Registration Permission: Consent of instructor	
	461					O-Registration Permission: Consent of instructor	
	465					O- Registration Permission: consent of instructor	
	466					O-Registration Permission: Consent of instructor	
	470					O- Registration Permission: consent of instructor	
	471					O- Registration Permission: Consent of instructor	
	472					O- Registration Permission: Consent of instructor	
	473					O- Registration Permission: Consent of instructor	
	474					O- Registration Permission: Consent of instructor	
	475					O- Registration Permission: Consent of instructor	
	480					O-Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	481					O Registration Permission: Consent of instructor	
	483					O- Registration Permission: Consent of instructor	
	484					O-Registration Permission: Consent of instructor	
	485					O- Registration Permission: Consent of instructor	
	486					O- Registration Permission: Consent of instructor	
	489					O- Registration Permission: Consent of instructor	
	490					O Registration Permission: consent of instructor	
	494					O- Registration Permission: Consent of instructor	
	495					O- Registration Permission: Consent of instructor	
	496					O- Registration Permission: consent of instructor	
	499					O- Registration Permission: Consent of instructor	
	503					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music – Music major.	
	505					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music – Music major.	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	510					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music – Music major.	
	515					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music – Music major.	
	520					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music – Music major.	
	525					O-Registration Permission: By audition only. Requires consent of instructor and admission to Master of Music - Music major.	
	530					O-Registration Permission: By audition. Requires consent of instructor and Admission to Master of Music - Music major.	
	535					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	540					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	545					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	550					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	551					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	555					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	560					O-By audition only. Requires consent of instructor and Admission to MM major.	
	565					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	570					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	572					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	575					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	580					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	583					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	585					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	590					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	594					O-By audition only. Requires consent of instructor and Admission to MM major.	
	595					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	
	599					O-Registration Permission: By audition. Requires consent of instructor and admission to Master of Music - Music major.	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(717) Music Tech							
	540					O- Registration Permission: Consent of instructor	
	550	540					
	560	550					
(714) Music Theory							
	430						
	440						
	450						
	520					O- Registration Permission: Consent of instructor	
	530					O Registration Permission: - Consent of instructor	
	593					O- Registration Permission: Consent of school director	
(715) Music Voice							
	410						
	420						
	425						
	510						
	520					O- Registration Permission: Consent of instructor	
	530					O- Registration Permission: Consent of instructor	
	540					O- Registration Permission: Consent of instructor	
	550						
	560						
	565					O- Registration Permission: Consent of instructor and admission to Master of Music concentration in Vocal Pedagogy.	
	570					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	575					O- Registration Permission: Consent of instructor and admission to Master of Music – Music major/Vocal Pedagogy concentration	
	580						
	585						
	590						
	594					O- Registration Permission: Consent of instructor	
	595	590					
(745) Philosophy							
	400						
	411	See Primary					
	419	See Primary					
	420					R-six hours of philosophy courses	
	435					O-Registration Permission: Consent of instructor	
	440					R-6 hours of philosophy courses	
	443						
	445						
	446						
	462					R-upper-division coursework in philosophy or biology	
	472					R-three philosophy courses 200-level or above	
	473					R-six hours of philosophy courses	
	500						
	502						
	510						
	520						
	522						
	524						
	528						
	540						
	542						
	544						
	546						
	547						
	548						
	575						
	577						
	585						
	587						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	588						
	590						
	591						
	592						
	593						
	600						
	620						
	622						
	624						
	640						
	646						
(773) Physics							
	411	240	And Mathematics 435				
	412	411					
	421					A-Prereq: 138 or 136 or 431 or 232 O- Registration Permission: Consent of instructor	
	431					A-Prereq: 138 or 136 or 232	
	432	431					
	461					A-361 and 240 or 411	
	462	461					
	490						
	500						
	501						
	502						
	503						
	505						
	506						
	507						
	508						
	511					R-familiarity with computational methods	
	512					R-familiarity with computational methods	
	513						
	514						
	521						
	522	521					
	531						
	532	531					
	541						
	542	541					
	551	521	And 531			A-571	
	555						
	561			531			
	571					R-advanced calculus and differential equations courses	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	572	571					
	573					O- Registration Permission: Consent of instructor	
	591					O- Registration Permission: Consent of department	
	592					O- Registration Permission: consent of department	
	593					O- Registration Permission: Consent of department	
	594					O- Registration Permission: Consent of department	
	599					O- Registration Permission: Consent of department	
	600						
	601						
	602						
	605						
	606						
	610						
	611						
	612						
	615						
	616						
	621						
	622						
	626						
	627						
	642						
	643						
	671						
	672						
(801) Political Science							
	402						
	403						
	425						
	430						
	431						
	435						
	441						
	442						
	445						
	446						
	451						
	452						
	454						
	456						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	459						
	461						
	463						
	471						
	473						
	474						
	475						
	476						
	500						
	502						
	510						
	511						
	512						
	513						
	514						
	520						
	522						
	530						
	531						
	532						
	533						
	535						
	537						
	539						
	540						
	544						
	545						
	547						
	548						
	549						
	550						
	552						
	555						
	556						
	558						
	560						
	562						
	564						
	566						
	569						
	570						
	572						
	574						
	580						
	581						
	582						
	583						
	584						
	585						
	586						
	587						
	588						
	589						
	590					O- Registration Permission: Consent of instructor	
	591						
	592						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	593						
	594					O- Registration Permission: Consent of instructor	
	595					O- Registration Permission: Consent of instructor	
	596						
	597					O- Registration Permission: Consent of instructor	
	598					O- Registration Permission: Consent of instructor	
	600						
	610						
	628						
	639						
	640						
	654						
	660						
	668						
	670						
	682						
	684						
	688						
(811) Portuguese							
	400					R-three hours at 300 level in another Romance language	
	431						
	432						
	591						
	592						
	593						
(830) Psychology							
	400						
	409						
	410						
	415						
	420						
	424						
	430						
	431						
	434						
	440						
	445	385	Or Mathematics 115				
	446	445					
	450	See Primary					
	459	See Primary					
	461						
	470						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	475						
	480						
	482						
	489						
	500						
	502						
	505						
	507						
	508						
	509						
	510						
	511						
	512						
	513						
	515						
	517						
	521						
	522						
	526						
	527						
	528						
	543						
	545	See Primary					
	546						
	550						
	554						
	555						
	558						
	559						
	560						
	565						
	567	See Primary					
	568						
	569	See Primary					
	570						
	571						
	572						
	573						
	574	See Primary					
	576						
	580						
	593						
	594						
	595						
	596						
	597						
	598						
	599						
	600						
	601						
	607						
	610						
	613						
	617						
	623						
	625						
	635						
	661						
	667						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	670						
	671						
	672						
	673						
	674						
	675						
	676						
	678						
	679						
	683						
	695						
	696						
	697						
(863) Religious Studies							
	401						
	405						
	411						
	425					O- Registration Permission: Consent of instructor	
	430					O- Registration Permission: Consent of instructor	
	440					O- Registration Permission: Consent of instructor	
	490					O- Registration Permission: Consent of instructor	
	499					O- Registration Permission: Consent of instructor	
	503					O- Registration Permission: Consent of instructor	
	505						
	506						
	507						
	510					A-Prereq: 503 O- Registration Permission: Consent of instructor	
	513						
	514						
	515						
	520						
	532					O- Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	533					O- Registration Permission: consent of instructor	
	550	503					
	551	503					
	591						
	592						
	593						
(886) Russian							
	401	312					
	402	401					
	425	See Primary					
	426	See Primary					
	430						
	451	312					
	452	312					
	510	402					
	550	402					
	591						
	592						
	593						
(915) Sociology							
	446						
	451					R-350	
	452						
	453						
	455						
	459						
	462						
	464						
	465	110	Or 120				
	500						
	502						
	504						
	505	350					
	506						
	507						
	510						
	521						
	531						
	534						
	541						
	543						
	551						
	560						
	562						
	585	See Primary					
	591						
	592						
	593						
	599						
	600						
	622	521					
	629						
	633	531					
	636	531					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	639					O- Registration Permission: consent of instructor	
	644						
	645	504					
	649					O- Registration Permission: Consent of department	
	653	505					
	655	505					
	661					O- Registration Permission: Consent of instructor	
	665					O- Registration Permission: Consent of instructor	
	675	541					
	695					O- Registration Permission: Consent of department	
	699					O- Registration Permission: Consent of department	
(924) Spanish							
	421					A-Prereq: 323	
	422					A-Prereq: 323	
	423					A-Prereq: 323	
	425	See Primary					
	426	See Primary					
	429	See Primary					
	430					A-Prereq: 323; Coreq: 330	
	433					A-Prereq: 323; Coreq: 330 R-completion of major or minor requirements in 332, 333, 334	
	434					A-Prereq: 323; Coreq: 330 R-completion of major or minor requirements in 332, 333, 334	
	461						
	465						
	479					A-Prereq: 323; Coreq: 330 R-completion of major or minor requirements in 332, 333, 334	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	480					A-Prereq: 323; Coreq: 330 R-completion of major or minor requirements in 332, 333, 334	
	482					A-Prereq: 323; Coreq: 330 R-completion of major or minor requirements in 332, 333, 334	
	484					A-Prereq: 323; Coreq: 330 R-completion of major or minor requirements in 332, 333, 334	
	486					A-Prereq: 323; Coreq: 330 R-completion of major or minor requirements in 332, 333, 334	
	489					A-Prereq: 323; Coreq: 330 R-completion of major or minor requirements in 332, 333, 334	
	500						
	502						
	512						
	531						
	532						
	533						
	534						
	535						
	537						
	540						
	541						
	542						
	543						
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	561						
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	572						
	573						
	575						
	576						
	577						
	578						
	579						
	591						
	592						
	593						
	600						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	621						
	631						
(976) Theatre							
	420					A-Prereq: 320 O- Registration Permission: Consent of instructor	
	425						
	430	220					
	431	430					
	446						
	450						
	452						
	454						
	456	355					
	462	362					
	464					O- Registration Permission: Consent of instructor	
	470					O- Registration Permission: Consent of instructor	
	491					O- Registration Permission: Consent of instructor	
	492						
	493						
	501						
	502						
	503						
	510						
	512						
	520						MFA – Theatre major
	523						MFA – Theatre major
	525						MFA – Theatre major
	536						
	542						
	543					O- Registration Permission: Consent of instructor	
	545						
	546	446					
	547						
	549						
	550						
	551						
	552	551					
	553						
	555	503				A- Prereq: 580	
	556						MFA – Theatre major

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	560					O- Registration Permission: Consent of instructor	
	562	462					
	564					O- Registration Permission: Consent of instructor	
	580						MFA – Theatre major
	584					O- Registration Permission: consent of instructor	
	585					O- Registration Permission: Consent of instructor	
	587					O- Registration Permission: consent of instructor	
	593					O- Registration Permission: Consent of instructor	
	599					R-30 hours toward the MFA degree O- Registration Permission: Consent of instructor	
(985) Urban Studies							
	411	See Primary					
	412	See Primary					
	441	See Primary					
	442	See Primary					
	446	See Primary					
	464	See Primary					
(994) Women's Studies							
	400						
	410						
	422	See Primary					
	425	See Primary					
	434	See Primary					
	469						
	483	See Primary					
	510						
	543	See Primary					
	593					O Registration Permission: - Consent of Chair of Women's Studies	

**College of Business Administration
Graduate Courses**

Effective: Fall 2006

***Enforced by registration**

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(205) Bus Adm							
	501					O- Registration Permission: Consent of MBA Program or MBA Director	
	506						
	511					O- Registration Permission: Consent of MBA Program or MBA Director	
	512	511					
	513	511	& 512				
	514	511	& 512			A- Prereq 513	
	521						Master of Accountancy – Accounting major
	522						Master of Accountancy – Accounting major
	523						Master of Accountancy – Accounting major
	524						Master of Accountancy – Accounting major
	551			561			Executive MBA
	552	551	& 561	562			
	553	551	& 552	563			Executive MBA
	561			551			Executive MBA
	562	551	& 561	552			
	563	551	& 562	553			
	591						MBA
	593					O- Registration Permission: Consent of MBA Director	
	599					O- Registration Permission: Consent of Instructor	
	611						PhD/Business Administration
	612						PhD/Business Administration
	693					O- Registration Permission: Consent of Instructor	PhD/Business Administration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	699						PhD/Business Administration
(009) Acct							
	451						
	502						Master of Accountancy – Accounting major or PhD in Business Administration Major/Accounting Concentration
	507						Master of Accountancy – Accounting major
	518						Master of Accountancy – Accounting major
	519						Master of Accountancy – Accounting major
	521					R-course in managerial accounting and admission to graduate business program	
	531						Master of Accountancy – Accounting major
	532	531					Master of Accountancy – Accounting major
	533	531					Master of Accountancy – Accounting major
	534	531					Master of Accountancy – Accounting major
	539	531					Master of Accountancy – Accounting major
	592						Master of Accountancy – Accounting major
	593						Master of Accountancy – Accounting major
	600						PhD - Business Administration major/Accounting concentration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	611					O- Registration Permission: Consent of PhD Program Advisor and admission to PhD Business Administration major/ Accounting concentration	
	612					O- Registration Permission: Consent of PhD Program Advisor and admission to PhD Business Administration major/Accounting concentration	
	619					O- Registration Permission: consent of PhD Program Advisor and admission to PhD Business Administration major/Accounting concentration	
	621					O- Registration Permission: Consent of PhD Program Advisor and admission to PhD Business Administration Major/Accounting concentration	
	622					O- Registration Permission: Consent of PhD Program Advisor and admission to PhD Business Administration major/Accounting concentration	
	693						PhD - Business Administration/ Accounting concentration
(216) Bus Law							
	511	301					Master of Accountancy – Accounting major
(558) Info Mgt							
	541	341					
	542	541					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	543	541					
	549	541					
(283) Econ							
	400						
	413						
	435						
	462						
	471						
	472						
	482						
	500						Economics major – MA or PhD
	502						Economics major – MA or PhD
	511						
	512						
	513						
	514						
	515						
	577						
	579						
	581						
	582						
	583						
	600						PhD – Economics major
	621	512	& 514				PhD – Economics major
	622	512	& 514				PhD – Economics major
	623						PhD – Economics major
	631						PhD – Economics major
	632						PhD – Economics major
	651	513					PhD – Economics major
	652	651					PhD – Economics major
	661						PhD – Economics major
	662						PhD – Economics major
	671						PhD – Economics major
	672						PhD – Economics major
	677						PhD – Economics major
	678						PhD – Economics major
	682	582	& 583				PhD – Economics major

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	683	582	& 583				PhD – Economics major
	690						PhD – Economics major
	693						PhD – Economics major
(349) Finance							
	502						PhD - Business Administration major/Finance concentration
	511	Business Administration 511	& Business Administration 512			A – Prereq: Business Administration 513	
	512	511	& Business Administration 511			A – Prereq: Business Administration 512, 513, 514	
	525	511	& Business Administration 511			A – Prereq: Business Administration 512, 513, 514	
	532	511	& Business Administration 511			A – Prereq: Business Administration 512, 513, 514	
	551	511	& Business Administration 511			A – Prereq: Business Administration 512, 513, 514	
	581	511	& Business Administration 511			A – Prereq: Business Administration 512, 513, 514	
	599					O - Registration Permission: Consent of instructor	
	600					O - Registration Permission: Consent of instructor and admission to PhD - Business Administration Major/Finance concentration	
	641					O - Registration Permission: Consent of Instructor and admission to PhD - Business Administration major/Finance concentration	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	651	641					PhD - Business Administration major/Finance concentration
	652	641					PhD - Business Administration major/Finance concentration
	653	641					PhD - Business Administration major/Finance concentration
	654	641					PhD - Business Administration Major/Finance concentration
(529) HRD							
	500						Master of Science - Human Resource Development major
	502						Admission to Master of Science - Human Resource Development major or PhD - Business Administration major/Human Resource Development concentration
	503						
	509	510					
	510						
	511	510					
	513					O- Registration Permission: Consent of instructor	
	514					O- Registration Permission: Consent of supervising instructor	
	517						
	518	510					
	519	510	& 511				
	520	563					
	556			510			
	557			510			
	559	557					
	561			510			
	563						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	600						PhD - Business Administration major/Human Resource Development concentration
	602						PhD - Business Administration major/Human Resource Development concentration
	603						PhD - Business Administration major/Human Resource Development concentration
	605	602	& 603				PhD - Business Administration major/Human Resource Development concentration
	606	602	& 603				PhD - Business Administration major/Human Resource Development concentration
	607	602	& 603				PhD - Business Administration major/Human Resource Development concentration
	608	602	& 603				PhD - Business Administration major/Human Resource Development concentration
	609	602	& 603				PhD - Business Administration major/Human Resource Development concentration
	611						PhD - Business Administration major/Human Resource Development concentration
	613	602	& 603				PhD - Business Administration major/Human Resource Development concentration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(568) I&O Psych							
	502						PhD - Industrial & Organizational Psychology major
	525						
	567						
	568						
	569						
	600						PhD - Industrial & Organizational Psychology major
	605						PhD - Industrial & Organizational Psychology major
	610						PhD - Industrial & Organizational Psychology major
	611	567	& 568				PhD - Industrial & Organizational Psychology major
	612	567	& 568				PhD - Industrial & Organizational Psychology major
	613	567	& 568				PhD - Industrial & Organizational Psychology major
	614	567	& 568				PhD - Industrial & Organizational Psychology major
	615	567	& 568				PhD - Industrial & Organizational Psychology major
	625						PhD - Industrial & Organizational Psychology major
	626						PhD - Industrial & Organizational Psychology major
	627						PhD - Industrial & Organizational Psychology major
	628						PhD - Industrial & Organizational Psychology major
	635						PhD - Industrial & Organizational Psychology major
	690						PhD - Industrial & Organizational Psychology major
(625) Mgmt							
	500						
	502						PhD - Business Administration major/Management concentration
	511						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	521						
	531						
	551						
	571						
	593						
	595						
	600						PhD - Business Administration major/Management concentration
(626) Logistics							
	502						Admission to PhD in Business Administration major/Logistics concentration
	510						
	546	510	& Business Administration 511			A-Prereq: Business Administration 512, 513, 514	
	547	510	& Business Administration 511			A-Prereq: Business Administration 512, 513, 514	
	593					O- Registration Permission: Consent of Instructor	
	599					O- Registration Permission: Consent of Instructor	
	600						PhD in Business Administration major/Logistics concentration
	611						PhD in Business Administration major/Logistics concentration
	612						PhD - Business Administration major/Logistics concentration
	613						PhD - Business Administration major/Logistics concentration
	614						PhD - Business Administration major/Logistics concentration
	615						PhD - Business Administration major/Logistics concentration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	693						PhD - Business Administration major/Logistics concentration
(632) Marketing							
	502						PhD - Business Administration major/Marketing concentration
	510						Non-MBA students
	520	Business Administration 511	& Business Administration 512			A-Prereq Business Administration 513	
	530	520	& Business Administration 511			A-Prereq Business Administration 512, 513, 514	
	593					R-MBA Core O- Registration Permission: Consent of instructor	
	599					O- Registration Permission: Consent of instructor	
	600						PhD - Business Administration major/Marketing concentration
	611						PhD - Business Administration major/Marketing concentration
	612						PhD - Business Administration major/Marketing concentration
	613						PhD - Business Administration major/Marketing concentration
	614						PhD - Business Administration major/Marketing concentration
	615						PhD - Business Administration major/Marketing concentration
	616						PhD - Business Administration major/Marketing concentration
	617						PhD - Business Administration major/Marketing concentration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	693						PhD - Business Administration major/Marketing concentration
(627) Mgt Sci							
	500						
	502						Management Science major – Master of Science or PhD
	526						
	531					R-fundamentals of matrix algebra course	
	532	Statistics 563				R-mathematical analysis course	
	533	531				R-proficiency in computer language	
	534						
	551						
	593						
	600						PhD - Management Science major
	621						PhD - Management Science major
	631						PhD - Management Science major
	651						PhD - Management Science major
	681						PhD - Management Science major
	691						PhD - Management Science major
	692						PhD - Management Science major
(738) Oper/Mgt Sci							
	540	Business Administration 511	& Business Administration 512			A-Prereq: Business Administration 513	
	541						
(962) Statistics							
	472	320					
	473	330					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	500						Master of Science – Statistics major or PhD - Business Administration major/Statistics concentration
	502						Master of Science – Statistics major or PhD - Business Administration major/Statistics concentration
	531					R-1 year of college mathematics	
	532	531					
	537					R-1 year of college mathematics coursework and 1 year of college statistics coursework	
	538	537	OR 532				
	561			531	& 537		
	563	Mathematics 241					
	564	563					
	566	571					
	567	563	OR Mathematics 425				
	571					R-1 year of calculus coursework and a statistics course	
	572	571				R-matrix algebra course	
	573	571					
	574	532	OR 538			A-Prereq: 571	
	575	538	OR 572				
	578					R-1 year of graduate-level statistics, and coursework in regression analysis and analysis of variance	
	579	538				R-knowledge of regression and analysis of variance	
	583						
	585					O- Registration Permission: Consent of department head	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	587					O- Registration Permission: Consent of Statistics Department Director of Graduate Studies	
	592					R-4 courses in graduate-level statistics	
	593					R-2 courses in statistics O- Registration Permission: Consent of department	
	595	572	OR 538				
	600						PhD - Business Administration major/Statistics concentration
	662	572				R-knowledge of programming language	PhD - Business Administration major/Statistics concentration
	663	564	& Mathematics 445				PhD - Business Administration major/Statistics concentration
	664	663					PhD - Business Administration major/Statistics concentration
	666	564	& 566				PhD - Business Administration major/Statistics concentration
	673	573					PhD - Business Administration major/Statistics concentration
	674	564	& 579				PhD - Business Administration major/Statistics concentration
	677	564	& 572				PhD - Business Administration major/Statistics concentration
	679	564				R-matrix algebra or matrix-based linear models course	PhD - Business Administration major/Statistics concentration
	683						PhD - Business Administration major/Statistics concentration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate <u>&</u> or <u>OR</u>)	*Coreq	*Coreq (must indicate <u>&</u> or <u>OR</u>)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	691					O- Registration Permission: Consent of Instructor and admission to PhD - Business Administration major/Statistics concentration	
	693						PhD - Business Administration major/Statistics concentration

**College of Communication and Information
Graduate Courses**

Effective: Fall 2006

***Enforced by registration**

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or <u>OR</u>)	*Coreq	*Coreq (must indicate & or <u>OR</u>)	A -Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
(248) Communication & Information							
	501						Master of Science – Communication major
	540						Master of Science Communication major
	600						PhD - Communication and Information major
	612						PhD - Communication and Information major
	620						
	622	612					
	632	612					
	640						PhD - Communication and Information major
	641	640					PhD - Communication and Information major
	642	612					
	652	612					
(012) Advertising							
	490						
	500						
	502						
	510					R – undergraduate background in communications or marketing	
	520					R – undergraduate background in communications or marketing	
	530	Statistics 531					
	540	Statistics 531					
	590						
	597						
(841) Public Relations							
	470	270					
	490	470					
	500						
	502						
	516	470					
	525						
	540						
	550	540					
	561						
	590						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
	597						
	598						
(250) Communication Studies							
	500						
	502						
	505						
	520						
	525						
	540						
	560						
	580						
	590						
	591						
	592						
	593						
(560) Information Sciences							
	450						
	500						
	502						
	510						
	520						
	521						
	523						
	530						
	531						
	532						
	533						
	534						
	535						
	536						
	537						
	538						
	539						
	540						
	550						
	551						
	552						
	553						
	554						
	555						
	556						
	557						
	558						
	560						
	561						
	563						
	564						
	565						
	566						
	567						
	571						
	572						
	573	571	OR 572				
	574						
	575						
	576						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
	580						
	582						
	583						
	584						
	585						
	586						
	587						
	588						
	589						
	590						
	591						
	594						
	595						
	596						
	599						
	601						
(592) Journalism & Electronic Media							
	400						
	412						
	414						
	415						
	430						
	433						
	440						
	444						
	450						
	451						
	455						
	456						
	457						
	460						
	465						
	467						
	470						
	475						
	480						
	488						
	490						
	491						
	500						
	502						
	510						
	512						
	520						
	525						
	535						
	550						
	551						
	552						
	553						
	555						
	560	488					
	565						
	570						
	580						
	585						
	590						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or <u>OR</u>)	*Coreq	*Coreq (must indicate & or <u>OR</u>)	A -Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
	593						
	597						
	598					O – Open to seniors and graduate students. R- Registration Permission: Consent of department head and completion of core curriculum; at least 15 hours coursework in Journalism and Electronic Media; and 3.0 GPA.	

**College of Education, Health, and Human Sciences
Graduate Courses**

Effective: Fall 2006

***Enforced by registration**

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(245) Child/Family Studies							
	500						Master of Science, Child and Family Studies major/Child and Family Studies concentration
	502						
	505						
	510						
	511						
	512	510					
	515						
	522						
	525						
	530						
	540					R – six graduate hours of child and family studies courses	
	545	563					
	550						
	552	550					
	560	550	& 563				
	562	550					
	563	550					
	564					O – Registration Permission: Consent of instructor	
	565						
	566	562					
	567	550					
	569						Master of Science – Child and Family Studies Major/Early Childhood Education concentration
	570					R – nine graduate hours of child and family studies courses	
	572						
	574			575			
	575			574	Or 591		

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	580					R – six graduate hours of child and family studies courses O – Registration Permission: Consent of instructor	
	581					R – six graduate hours of child and family studies courses O – Registration Permission: Consent of instructor	
	591			575			
	600						PhD - Human Ecology major/Child and Family Studies concentration
	610					R – twelve graduate hours of child and family studies courses O – Registration Permission: Consent of instructor	
	620						
	631	510	& 511			A – Prereq: 550	
	633						
	634	550	& 570			A – Prereq: 510, 511 R – six graduate hours of statistics courses	
	640	510	& 511			A –550	
	650	Communication and Information 642	Or Psychology 613				
	652					R – nine graduate hours of child and family studies courses	
	653					R – nine graduate hours of child and family studies courses	
	660	570					
	670	570				A – Prereq: Statistics 532, 537	
	680	570					
	681	570					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	691	570				R – nine graduate hours of child and family studies courses and 6 graduate hours of statistics courses	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(514) Hotel, Rest, Tourism							
	423						
	435						
	500						Master of Science - Consumer Services Management major/ Hospitality & Tourism Management concentration
	501					O- Registration Permission: Consent of instructor and admission to the Master of Science - Consumer Services Management major/Hospitality & Tourism Management (non-thesis) concentration	
	502						
	510						
	523						
	524						
	532						
	534					O- Registration Permission: Consent of instructor	
	535					O- Registration Permission: Consent of instructor	
	537						
	542	531	& 532				
	547						
	600						PhD - Human Ecology major/ Hospitality & Tourism Management concentration
	614						
	615						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(865) Retail/Consumer Sciences							
	412						
	415						
	500						Master of Science - Consumer Services Management major/ Retail & Consumer Sciences concentration
	501					O-Registration Permission: Consent of instructor and admission to Master of Science - Consumer Services Management major/Retail & Consumer Sciences concentration	
	502						
	510					R - retail management course	
	511						
	538						
	541						
	562	Statistics 531					
	590						
	593					R – nine hours of retail and consumer sciences graduate courses	
	595					R - nine hours of retail and consumer sciences graduate courses	
	600						PhD - Human Ecology major/ Retail & Consumer Sciences concentration
	614	562					
	615	562					
	616	562	& Statistics 538				
	625	510					
	641	541					
	695					nine graduate hours in consumer sciences	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(289) Education							
	540						
	574			575			
	575						Admission to Teacher Education
	576						
	589					O – Registration Permission: Consent of Instructor and admission to Teacher Education	
	591			575			

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(255) Counselor Ed							
	410						
	431						
	480						
	500					O- Registration Permission: Consent of Instructor and admission to Master of Science - Counseling major	
	502						
	503						
	504						
	518						
	521						
	525						
	535						Master of Science - Counseling major
	550						
	551						
	552						
	553	552					
	554						
	555	431	& 525			A-Prereq: 551	Master of Science – Counseling major
	556						
	558	550					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	559	555					Master in Science-Counseling major/Mental Health Counseling concentration
	561	550					
	565	551	& 554				
	566	See Primary					
	570						
	580						
	585	See Primary					
	593						
	600					O- Registration Permission: Consent of Instructor and admission to PhD – Education major/Counselor Education concentration	
	601	See Primary					
	602						
	604						
	625	See Primary					
	635	See Primary					
	650						PhD – Education major/Counselor Education concentration
	651	551					
	655						PhD – Education major/Counselor Education concentration
	659						PhD – Education major/Counselor Education concentration
	660						PhD – Education major/Counselor Education concentration
	665						PhD – Education major/Counselor Education concentration
	670						PhD – Education major/Counselor Education concentration
	671	See Primary					
	675						PhD – Education major/Counselor Education concentration
	693						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(310) Ed Psych							
	431						
	460					R- introductory course in psychology	
	500					O- Registration Permission: Consent of Instructor and admission to Master of Science - Educational Psychology major	
	502						
	503						
	504						
	505						
	507						
	509					O- Registration Permission: Consent of Instructor	
	510						
	513						
	514					O- Registration Permission: Consent of supervising instructor	
	515						
	516						
	517						
	518						
	520					O- Registration Permission: Consent of instructor	
	521					O- Registration Permission: Consent of instructor	
	522						
	523					O- Registration Permission: Consent of instructor	
	524						
	525						
	526	Counselor Education 525					
	527						
	528						
	529						
	530						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	540						
	541	Counselor Education 525					PhD – Education major/School Psychology concentration
	542			541			
	545						
	546	545					
	549						PhD – Education major/School Psychology concentration
	550						
	560						
	569						
	572						
	573						
	574						
	577					R- One year of college mathematics, an elementary course in statistics	
	585						
	593						
	600					O- Registration Permission: Consent of Instructor. O- Admission to PhD- Education major/ School Psychology and Educational Psychology concentrations	
	601						PhD - Education major/Counselor Education, Educational Psychology, or School Psychology concentration
	602						
	604						
	609						
	620	520					
	621	521					
	622	522	& 525				
	630						PhD – Education major/Educational Psychology concentration/Collaborative Learning specialization
	635						
	640						PhD – Education major/Applied Educational Psychology concentration
	649						PhD in Education/School Psychology concentration
	650						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	655						
	662					R- two-course sequence in statistics	
	663	Counselor Education 525				R- two-course sequence in statistical analysis	
	665						
	668	665					
	669						
	671						PhD – Education major/ Applied Educational Psychology concentration
	673	513	& 671				
	677	577					
	690						
	693						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(461) Higher Ed Administ							
	455						
	500					O- Registration Permission: Consent of instructor and admission to Master of Science - College Student Personnel major	
	502						
	503						
	513	See Primary					
	514						
	516	See Primary					
	534	See Primary					
	536						
	537						
	542						
	543						
	570						
	572						
	574						
	593					O- Registration Permission: Consent of instructor	
	595						

	599					O- Registration Permission: Consent of instructor	
	600					O- Registration Permission: Consent of instructor and admission to PhD – Education major/Higher Education Administration concentration	
	604						
	605						
	606	See Primary					
	614	See Primary					
	615	See Primary					
	616	See Primary					
	617	See Primary					
	619						
	629	See Primary					
	640						
	645						
	650						
	658						
	670						
	680	See Primary					
	693						
	695						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(857) Rehab Counselor Ed							
	530						
	532						
	533						
	537						
	538						
	541						
	543						
	545						
	547					O- Registration Permission: Consent of instructor	
	549						
	579						
	592						
	593						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(347) Exercise Science							
	480	BMCB 230	Or BMCB 440				
	500						Master of Science – Exercise Science major
	501						
	502						
	508						
	509	See Primary					
	513						
	516					A – statistics course	
	521					A – statistics course	
	525						
	531					R – general physics course	
	533					R – human or general physiology course and general chemistry course	
	541					R - human or general physiology course or general chemistry course	
	565	480	Or 533				
	567					R – undergraduate courses in human physiology and physiology of exercise	
	569	480	Or 533			A – Prereq: 567	
	570	533	& 567	569			
	581						
	585	See Primary					
	593						
	600						PhD – Education major/ Exercise Science or Sport Studies concentration
	601						
	622						
	625					R – graduate-level statistics course	
	635	480	Or 533			A – Prereq: 567	
	661	480	Or 533				
	664						
	681						
	693						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
(449) Health							
	400						
	405						
	406						
	420						
	425						
	430						
	435						
	465						
	500						Master of Public Health – Public Health major
	502						
	520						
	530						
	540						
	570						
	585					O - Registration Permission: Consent of instructor	
	590						
	593					O – Registration Permission: Consent of instructor and a specific proposal to instructor prior registration	
	600						PhD - Human Ecology major/ Community Health concentration
	601					O - Registration Permission: Consent of instructor	
	610						
	620	590	& 610				
	650						
	655						
	660						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(839) Public Health							
	400						
	410	300					
	493					O – Registration Permission: Consent of instructor	
	502						
	509						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	510						Master of Public Health – Public Health major or Master of Science – Nutrition major/Public Health Nutrition concentration
	520						Minimum student level: graduate
	521						Minimum student level: graduate
	523	PH521					Minimum student level: graduate
	525	520					Minimum student level: graduate
	530	Mathematics 115	Or Statistics 201				Master of Public Health – Public Health major or Master of Science – Nutrition major/Public Health Nutrition concentration
	540				530		Minimum student level: graduate
	542	540					Minimum student level: graduate
	550						Minimum student level: graduate
	552	550					Minimum student level: graduate
	555						Minimum student level: graduate
	560						Minimum student level: graduate
	580					O- Registration Permission: Consent of instructor	
	585	See Primary					
	587						Master of Public Health – Public Health major
	588					O - Registration Permission: Consent of major advisor and admission to Master of Public Health Public Health major	
	589					O – For approved extended placements only.	Master of Public Health – Public Health major
	590	See Primary					
	593					O- Registration Permission: Consent of instructor	
	635	See Primary					
	650	See Primary					
	655	See Primary					
	660	See Primary					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
(890) Safety							
	443						
	452						
	460						
	500						For Master of Science - Safety major
	502						
	532						
	533						
	534						
	535						
	536						
	537	535					
	572					R – Advanced graduate students, teachers, supervisors, and administrators. O – Registration Permission: Consent of instructor	
	590						
	593					O – Registration Permission: Consent of instructor. Specific proposal to instructor before registration.	
	601						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
(520) Human Ecology							
	500						
	502						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(271) Cultural Studies in Education							
	511						
	512						
	526						
	539						
	544						
	545						Minimum student level: Junior
	548						
	549						
	550						
	560						
	561	560					
	590						
	591						
	592						Admission to PhD – Education/ concentration in Cultural Studies of Educational Foundations concentration
	607						Doctoral candidate in College of Education, Health, and Human Sciences
	608					R-two courses in history/ philosophy of education	
	609						
	625					R-two courses in history/philosophy of education	
	660	560					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(256) Curric Ed Rsrch Evaluation							
	520						
	532						
	534						
	541						
	552						
	557						
	558						
	560						
	580						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	588						
	604						
	623						
	630					0- Registration Permission: Consent of instructor	
	631	630					
	672					0- Registration Permission: Consent of instructor	
	674						
	675						
	676	558					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(569) Inst Tech							
	521					R- basic computer operations	
	566						
	569						
	570						
	571						
	573						
	575						Master of Science or Specialist in Education - Instructional Technology and Educational Studies major or PhD – Education major
	576	573					
	577	575	OR 521			O-Participants will need unrestricted access to the Internet to complete all course activities.	
	578					R-basic computer operations	
	669						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	678						PhD -Education major/ Cultural Studies of Educational Foundations; Curriculum, Educational Research, and Evaluation concentration; Instructional Technology concentration
(570) Inst Tech Ed Studies							
	500						Master of Science - Instructional Technology and Educational Studies major
	502						
	503						Master of Science - Instructional Technology and Educational Studies major
	518						Specialist in Education - Instructional Technology and Educational Studies major
	593						
	594						
	595						
	600						
	601						PhD - Education major/Cultural studies of educational foundations concentration; Curriculum, Educational Research and Evaluation concentration; Instructional Technology concentration
	689						
	693						
	694						
	695						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(726) Nutrition							
	500						Master of Science- Nutrition major or Public Health Nutrition major
	502						
	509	See Primary					
	511					R-advanced nutrition course	
	512					R-advanced nutrition course	
	513					R-advanced nutrition course	
	514	513					
	515	513	& 514				
	516					R-advanced nutrition course	
	517					R-advanced nutrition course	
	518					R-advanced nutrition course	
	520						
	521					R-nutrition in disease course	
	522					R-nutrition in disease course	
	530						
	540						
	541					R- six graduate hours in nutrition or food systems administration and a graduate-level statistics course	
	542			541			
	544			541			
	547					O- Registration Permission: Consent of instructor	
	548					O- Registration Permission: Consent of instructor	
	549					O- Registration Permission: Consent of instructor	
	600						PhD – Human Ecology major - Nutrition Science concentration
	602	512				O- Registration Permission: Consent of instructor	
	603	508					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(853) Rec Leisure Studies							
	415					O – Registration Permission: Consent of instructor	
	430						
	440						
	450						
	470						
	500					O-Registration Permission: Consent of instructor and admission to the Master of Science - Recreation and Leisure Studies major	
	502					O – Registration Permission: Consent of instructor	
	510						
	515						
	520						
	521						
	522						
	540					O – Registration Permission: Consent of instructor	
	541					O – Registration Permission: Consent of instructor	
	590					R – 24 hours of coursework in the major	3.0 GPA
	591						
	592						
(957) Sport Mgt							
	440						
	460						
	500						Master of Science - Sport Studies major
	501						
	502						
	503						
	511						
	512						
	530						
	532						
	535						
	540						
	544						
	553						
	554						
	555						
	570						
	575						
	580						
	590						
	593						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	595						
(959) Sport Studies							
	500						Master of Science - Sport Studies major
	501						
	502						
	505						
	507						
	514						
	515						
	533						
	534						
	535						
	536						
	538						
	539						
	540	539					
	542						
	543						
	593						
	594						
	595						
	600						PhD - Education major/Sport Studies concentration
	601						
	633						
	681						
	693						
	694						
	695						
(274) Dance							
	415						
	480						
	490						
	495						
	510						
	520						
	530						
	550	440	& 445				
	593						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(141) Art Ed							
	510					O- Registration Permission: Consent of Instructor	
	520					O- Registration Permission: Consent of Instructor	
	530						
	540						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(285) Ed Deaf/Hard of Hearing							
	415						
	416						
	419						
	424						
	425						
	504						
	509						
	523						
	528	425	& 523			A- Prereq: Educational Interpreting 223	
	529	415					
	579						Master of Science: Teacher Education major/Education of the Deaf and Hard of Hearing concentration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(293) Educational Administration							
	513						
	515						
	516						
	518						
	523						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	529						
	534	See Primary					
	535						
	544						
	548						
	553						
	554						
	560						
	577	See Primary					
	580					O- Registration Permission: Consent of instructor	
	583						
	592						
	596						
	605	See Primary					
	606						
	610						
	614						
	615						
	616						
	617						
	629						
	646						
	656						
	658	See Primary					
	670	See Primary					
	680						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(287) Ed Interpreting							
	431	226					
	432	431					
	435	431					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(322) Elem Ed							
	421						Admission to Teacher Education
	429						Admission to Teacher Education
	445						Admission to Teacher Education
	504					R-elementary school language arts course	
	505			Education 575		R-elementary and middle school teaching methods course	
	515						
	524						
	527					O- Registration Permission: Consent of instructor	
	528					R- language arts course	
	529	Mathematics Education 523					
	550					R- language arts course	
	566					O- Registration Permission: Consent of instructor	
	567					R- early childhood education course	
	584					R- early childhood education course	
	606					R-research course	
	650					O- Registration Permission: Consent of instructor R-two graduate courses in early childhood education	
	651					R-graduate course in elementary school language arts	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(340) English Ed							
	459						Admission to Teacher Education
	460						
	507						
	508						
	509						
	521						
	590						
	592						
	597						
	598						
	601						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(394) Foreign Lang/ESL Ed							
	455					R-completion or near completion of foreign language hours for certification	Admission to Teacher Education Program
	555	587					
	556	578					
	578	587					
	587					O- Registration Permission: Consent of instructor	
	678	578					
	687	587					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(642) Math Ed							
	485						Admission to Teacher Education
	522						
	523						
	530						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	543						
	550						
	581						
	583						
	622					R-minimum of nine hours of 500-level mathematics education courses	
	683					R-two graduate courses in mathematics education	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(847) Reading Ed							
	434					R-reading education course	Admission to Teacher Education
	461						
	530					R- teaching of reading course	
	533					R-teaching of reading course	
	534						
	536					R-500-level reading education course	
	537					R-reading education course or equivalent teaching experience	
	538					R-diagnosis and correction of classroom reading problems course	
	539	537	or 538			O- Registration Permission: Consent of instructor	
	540					R-reading education course or equivalent teaching experience	
	554					R-diagnosis and correction of reading problems course	
	602						
	603					R-500-level reading education courses	
	605					R-diagnosis and correction of reading problems course	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(899) Science Ed							
	496						Admission to teacher education
	506						
	509						
	510						
	531					R - teaching elementary school science course	
	565	496					
	572						
	596						
	628	596					
	696	628					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(900) Soc Sci Ed							
	454						Admission to Teacher Education
	521					R – teaching of social studies course	
	525					R – teaching of social studies course	
	585					R – undergraduate teaching of social studies course	
	599						
	621					R – recent course in teaching of social studies	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(932) Special Ed							
	419	402		420			Admission to Teacher Education
	420	402		419			Admission to Teacher Education
	431	402		432			Admission to Teacher Education

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	432	402		431			Admission to Teacher Education
	454						Admission to Teacher Education
	456						
	470						For non-Special Education majors only
	471						Admission to Teacher Education
	504						
	506					O - Enrollment limited to those in 5 th year program.	
	553						
	554	553					
	555						
	556			555			
	557						Master of Science - Teacher Education major
	558						
	564						
	565			564			
	568						
	575						
	586						
	587					R-research course	
	590						
	620					R – nine hours of statistical and research methods coursework	
	630					A – Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(978) TPTE							
	500						
	502						
	503						
	517						
	518						
	526					R-classroom experience or admission to Teacher Education	
	535						
	540						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	550						Master of Science - Teacher Education major
	593						
	594						
	595						
	596			Special Education 553			
	600						PhD - Education major/ Early childhood education concentration; Educational administration and supervision concentration; Literacy, language and ESL education concentration; Teacher Education concentration
	604						PhD - Education major/ Early childhood education concentration; Educational administration and supervision concentration; Literacy, language and ESL education concentration; Teacher Education concentration
	605	604					
	610						PhD - Education major/ Early childhood education concentration; Educational administration and supervision concentration; Literacy, language and ESL education concentration; Teacher Education concentration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	617						PhD - Education major/ Early childhood education concentration; Educational administration and supervision concentration; Literacy, language and ESL education concentration; Teacher Education concentration
	620						PhD or Specialist in Education
	640						PhD or Specialist in Education
	689					R-program prerequisites O- Registration Permission: Consent of instructor	
	693						
	694						
	695						

**College of Engineering
Graduate Courses**

Effective: Fall 2006

*Enforced by registration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(226) Chem Engr							
	425						
	467					O-Registration Permission: Consent of instructor	
	477					O-Registration Permission: Consent of instructor	
	483	See Primary					
	484	See Primary					
	500						Master of Science – Chemical Engineering Major
	501						
	502						
	505						
	507						Minimum Student Level: Graduate
	509	See Primary					
	531						
	532	531					
	541	See Primary					
	542						
	547						
	548	547					
	551						
	561						Minimum Student Level: Graduate
	575						
	580					O-Registration Permission: Consent of instructor	
	581						Minimum Student Level: Graduate
	585	See Primary					
	590						
	594	See Primary					
	600						PhD – Chemical Engineering Major
	631	532					
	641	542					
	642	See Primary					
	647	505	& 547				

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	651	551					
	661						
	675	575					
	691						PhD - Chemical Engineering Major
(254) Civil Engr							
	451	352					
	452	352					
	453	352					
	472	471					
	474	471					
	485	See Primary					
	490	395	OR 416				
	500						Master of Science – Civil Engineering Major
	502					O- Registration Permission: Consent of instructor	
	510						Minimum Student Level: Graduate
	521	321	& 330				
	522	321					
	525	321	& 330				
	530	330					
	531	330					
	532	330					
	533	330					
	535	435					
	538					R-soil behavior and matrix computation course	
	539					O – Registration Permission: Consent of instructor	
	540	442					
	541	442					
	543	442					
	551						Minimum Student Level: Graduate
	552	551	OR 452				
	553	352					
	556	452					
	557	551	& 556				
	558						Minimum Student Level: Graduate
	561					R – structural analysis and matrix computation course	
	562	471					
	563	361					
	565	471					
	571	471					
	572	See Primary					
	573	471					
	574	471					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	576	471					
	580	Math 142					
	590						Master of Science - Environmental Engineering Major
	595					O- Registration Permission: Consent of instructor	
	600						PhD- Civil Engineering Major
	631	435					
	651	554	OR 558				
	652	651					
	671	571					
	674	574					
	680	580					
	691					O- Registration Permission: Consent of instructor	
(344) Environmental Engr							
	500						Master of Science - Civil Engineering Major
	502					O- Registration Permission: Consent of instructor	
	508						Minimum Student Level: Graduate
	520	390					
	522	390					
	525	395	OR 416				
	530	395	OR 416				
	535	Geology 485					
	543	See Primary					
	545	See Primary					
	551	380					
	552	380					
	553	Chemistry 130	OR Chemistry 138				
	554					O- Registration Permission: Consent of instructor R- One year of chemistry courses	
	555						Minimum Student Level: Senior
	556						Minimum Student Level: Graduate
	570					O- Registration Permission: Consent of instructor	
	571	570					
	572	570					
	573	570					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	575	See Primary					
	581	See Primary					
	590						Master of Science - Environmental Engineering major
	595					O- Registration Permission: Consent of instructor	
	620	520					
	651					O- Registration Permission: Consent of instructor	
	653					O- Registration Permission: Consent of instructor	
	691					O- Registration Permission: Consent of instructor	
(319) Elect Comp Engr							
	400	316	& 342			A – Prereq: 355	
	415	316					
	416	316					
	421	316	& 325				
	422	421					
	423	316	& 325				
	431	316	& 336				
	432	431					
	441						
	442	441					
	443	316	& 341			A – Prereq: 342	
	446	316	& 341			A – Prereq: 342	
	451	355					
	453	206					
	471	316					
	472	316					
	481	316	& 325				
	482	481					
	491					O – Registration Permission: Consent of instructor	
	495					R - Completion of junior electrical and computer engineering courses	
	500						
	501						
	502						
	503						
	504						
	505						
	506						
	507						
	509	See Primary					
	511			507			
	512	511					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	521	421					
	522	521					
	523						
	525						
	531	432	OR 431				
	532	531					
	541						
	542						
	543	504					
	544	543					
	545						
	551						
	552	551					
	553						
	557						
	561						
	562	561					
	565						Minimum Student Level: Graduate
	566	565					
	571						
	572						
	573						
	574	573					
	594	See Primary					
	598						
	599						
	600						
	613						
	614	611					
	615						
	617					O – Registration Permission: Consent of instructor	
	618	617					
	623						
	625						
	626						
	629						
	631					O – Registration Permission: Consent of instructor	
	632	631					
	642	441	& 504				
	643	504					
	644	643					
	651	552					
	652	651					
	653						
	657	557					
	658	504					
	659	551	& 557				
	663	564	OR 562				
	664	663					
	671	572	OR 573				
	672	671					
	673	672					
	691						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	692						
(556) Industrial Engr							
	401	330					
	402	202					
	405						
	421						
	422						
	423						
	427			306	& 402		
	440	300					
	455					R –computer-programming course.	
	483	See Primary					
	484	See Primary					
	500						
	501						
	502						
	503						
	504					O – Registration Permission: Consent of instructor	
	506	504					
	508	401					
	509						
	511						
	513						
	514						
	515	402					
	516	Statistics 251					
	517	516					
	518	405	& Statistics 251				
	519	Statistics 251					
	520	519					
	521	519					
	522	301	OR Engin Mgmt 537				
	524	508					
	525						
	526	306	OR 525				
	527	515					
	550						Majors in College of Engineering only
	552	301					
	554	514					
	555	455					
	556	516					
	591						
	592						
	593						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	594						
	600						
	601	518	& 523				
	602	See Primary					
	605	516					
	606						
	691						
	692						
	693						
(328) Engr Mgt							
	501						
	502						
	532						
	533						
	534						
	535	539	& Indust Engin 518				
	536	537					
	537						Exclude - BS in Industrial Engineering
	538	539					
	539	533	& Indust Engin 518				
	540						
	541	Indust Engin 516					
	542	Indust Engin 516					
	543						
(638) Mat Sci/Engr							
	405						
	421	302					
	429	201	& 302				
	470	201					
	474	201					
	476	201					
	484	See Primary					
	500						Master of Science - Materials Science and Engineering major or Master of Science Polymer Engineering major
	502						
	503						
	504						
	505	See Primary					
	507	See Primary					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	509	See Primary					
	511						
	512						
	515	511					
	516	512					
	522	421					
	524					R - undergraduate thermodynamics course	
	525						
	526						
	528	See Primary					
	531						
	532					R - mechanical behavior course	
	540					R - organic chemistry course and thermodynamics course	
	541					R - fluid flow and heat transfer course	
	542	541					
	543			540			
	544					R - undergraduate physical chemistry course	
	545					O – Registration Permission: Consent of instructor	
	546						
	549			540			
	550	549					
	552					R - organic chemistry and thermal physics courses	
	553					R - organic chemistry course	
	554	553					
	555	552	& 553				
	560	360					
	570	Physics 232	& Physics 240				
	572						
	575	552					
	576					O – Registration Permission: Consent of Instructor	
	580					O – Registration Permission: Consent of Instructor	
	594					O – Registration Permission: Consent of Instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	600						PhD - Materials Science and Engineering major or PhD - Polymer Engineering major
	621					O –Registration Permission: Consent of instructor	
	625	531	& 532				
	626	625					
	627	531	& 532				
	628	531	& 532				
	630					O – Registration Permission: Consent of instructor	
	632	476					
	633	476	& 632				
	635	552				R - mechanics of materials course	
	642	541					
	643	543					
	644	543					
	672					R - coursework in diffraction O – Registration Permission: Consent of instructor	
	673					O – Registration Permission: Consent of instructor	
	676					O – Registration Permission: Consent of instructor	
	678					O – Registration Permission: Consent of instructor	
(018) Aero Engr							
	422	351	& 370				
	424	351		Mech Engin 344			
	425	351					
	426	351	& 370	Mech Engin 344		A – Prereq: 366	
	429	426	& 425			A – Prereq: 422	
	449	345	& 425			A – Prereq: 351	
	494					O – Registration Permission: Consent of Instructor	
	495					O – Registration Permission: Consent of Instructor	
	500						Master of Science – Aerospace Engineering major
	502						
	509	See					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
		Primary					
	511	422	OR 541	Math 425			
	512					O – Registration Permission: Consent of instructor	
	513	423	OR 541				
	515	422					
	516	515					
	521	422					
	522	521					
	525	512					
	527	521	& 541			A – Prereq: Mech Engin 522	
	528	521	& 541			A – Prereq: Mech Engin 522	
	529	522	& Mech Engin 522				
	531	422	& Math 471				
	532	511	& 512				
	533	See Primary					
	534	522				R – 512	
	535	See Primary					
	539	See Primary					
	541	See Primary					
	542	See Primary					
	544	522					
	551	Math 471					
	554	423	& 551				
	555	See Primary					
	556	555					
	557	423	& 551				
	559	See Primary					
	561					O – Registration Permission: Consent of instructor	
	564	551	& Math 471				
	571	See Primary					
	572	See Primary					
	573	See Primary					
	574	425	& Math 471			A – Prereq: Math 404	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	590					O – Registration Permission: Consent of advisor	
	595						
	599					O – Registration Permission: Consent of instructor	
	600						PhD – Aerospace Engineering major
	642	522	& Mech Engin 522				
	645	See Primary					
	659	See Primary					
	661	See Primary					
	662	See Primary					
	663	See Primary					
	664	See Primary					
	681	512	& Math 562			R –continuum mechanics course	
	690					O – Registration Permission: Consent of instructor	
(192) Biomed Engr							
	408	310	& Biology 140				
	430	310	& 346				
	473	Mech Engin 321		310	& Mat Sci & Engin 474		
	475	Aero Engin 341	& Math 231				
	494					O – Registration Permission: Consent of instructor	
	495					O – Registration Permission: Consent of instructor	
	500						Master of Science – Biomedical Engineering major
	502						
	507	See Primary					
	509	See Primary					
	511	ECE 301					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	531	Mech Engin 231					
	534	See Primary					
	539	See Primary					
	541	See Primary					
	552	Mech Engin 231	& Mech Engin 321				
	555	Mech Engin 363	& Mech Engin 534				
	559	See Primary					
	561	See Primary					
	562	See Primary					
	571	See Primary					
	572	See Primary					
	577	See Primary					
	587	See Primary					
	590					O – Registration Permission: Consent of instructor	
	595						
	599					O – Registration Permission: Consent of instructor	
	600						PhD – Biomedical Engineering major
	610					O – Registration Permission: Consent of instructor	
	611	511					
	631	531					
	659	See Primary					
(335) Engr Sci							
	500						Master of Science – Engineering Science major
	502						
	526						
	527					O – Registration Permission: Consent of instructor	
	528					O – Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	529					O – Registration Permission: Consent of instructor	
	533	See Primary					
	534	See Primary					
	539						
	541	See Primary					
	542	See Primary					
	551					R- undergraduate degree in a major in engineering or a natural science	
	552	551					
	553	Mech Engin 321					
	559	See Primary					
	564						
	566						
	568	566					
	571						
	572	541					
	577	See Primary					
	578	See Primary					
	581					O – Registration Permission: Consent of instructor	
	585	See Primary					
	590					O – Registration Permission: Consent of advisor	
	595						
	600						PhD – Engineering Science major
	627	527					
	645	542					
	651	551	& 552				
	652	551	& 552				
	653	553					
	654	553					
	657						
	659	See Primary					
	671	See Primary					
	681					O – Registration Permission: Consent of instructor	
(650) Mech Engr							
	449	344	& 345	475			
	451	363					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	452	321	& Aero Engin 341				
	466	321	& Mat Sci & Engin 201				
	475	344					
	483	See Primary					
	484	See Primary					
	494						
	495						
	500						Master of Science – Mechanical Engineering major
	502						
	504					O – Registration Permission: Consent of instructor	
	505					O – Registration Permission: Consent of instructor	
	506	504					
	507	See Primary					
	508	See Primary					
	509	See Primary					
	510	555					
	511	344					
	512	541					
	514	344	& 511				
	515	344	& Aero Engin 341				
	519	506					
	521						
	522						
	523					O – Registration Permission: Consent of instructor	
	525	522	& 541				
	526	525					
	527	344					
	528	527					
	531	See Primary					
	533	363	& 391				
	534	363					
	537	231	& 321				
	539	See Primary					
	541	Aero Engin 341					
	542	541					
	547	507					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	551					O – Registration Permission: Consent of Instructor	
	552					O – Registration Permission: Consent of Instructor	
	555	See Primary					
	559	321					
	561	See Primary					
	562	See Primary					
	563	See Primary					
	567	321	& 363				
	577	See Primary					
	581					O – Registration Permission: Consent of instructor	
	582					O – Registration Permission: Consent of instructor	
	584					O – Registration Permission: Consent of instructor	
	585					O – Registration Permission: Consent of instructor	
	586	451	& 533				
	587	451					
	588					O – Registration Permission: Consent of instructor	
	589	588					
	590					O – Registration Permission: Consent of advisor	
	594					O – Registration Permission: Consent of instructor	
	595						
	599					O – Registration Permission: Consent of instructor	
	600						PhD – Mechanical Engineering major
	610					O – Registration Permission: Consent of instructor	
	613	511	& 512				
	621					O – Registration Permission: Consent of instructor	
	631	See Primary					
	642					O – Registration Permission: Consent of instructor	

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	647	547					
	651	See Primary					
	652	See Primary					
	653	See Primary					
	654	See Primary					
	659	559					
	661	534					
	671	See Primary					
	686	586					
	689	589					
(716) Nuclear Engr							
	403	304					
	404	470					
	406	Physics 232					
	421	301					
	431	301					
	470	301					
	483					O-Registration Permission: Consent of instructor	
	484					O-Registration Permission: Consent of instructor	
	494					O-Registration Permission: Consent of instructor	
	500						MS - Nuclear Engineering major
	502						
	509						
	511						
	512						
	521						
	522	521					
	541	470					
	542						
	543	421					
	550	551					
	551			301			
	552	551					
	553	552					
	567					O-Registration Permission: Consent of instructor	
	568	567					
	571	470					
	572					O-Registration Permission: Consent of instructor	
	577					O-Registration Permission: Consent of instructor	
	578						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	579						Minimum Student Level: Graduate
	581	406					
	582					O-Registration Permission: Consent of instructor	
	585					O-Registration Permission: Consent of instructor	
	594						
	597					O-Registration Permission: Consent of instructor	
	598						MS - Nuclear Engineering major
	600						PhD (doctoral candidate, late stage) in Nuclear Engineering
	611	572					
	612	572					
	621	551	& 552				
	653	522					
	671	577					
	697					O- Registration Permission: Consent of instructor	

**College of Nursing
Graduate Courses**

Effective: Fall 2006

***Enforced by registration**

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(720) Nursing							
	400						
	402					O- Registration Permission: Consent of instructor	
	409						
	500						MSN – Nursing major
	501					R – Graduate level statistics course	
	502					O- Registration Permission: Consent of instructor	
	504						MSN – Nursing major
	505					R – undergraduate pharmacology course	
	506	505					MSN – Nursing major/Nurse Anesthesia concentration
	507						MSN – Nursing major
	509	See Primary					
	510						
	511						
	515					A – undergraduate pathophysiology course.	
	516						MSN – Nursing major/Nurse Anesthesia concentration
	517						MSN – Nursing major/Nurse Anesthesia concentration
	518						MSN – Nursing major/Nurse Anesthesia concentration
	519					A – undergraduate pharmacology course	
	522						MSN – Nursing major/Nurse Anesthesia concentration
	523						MSN – Nursing major/Nurse Anesthesia concentration
	524						MSN – Nursing major/Nurse Anesthesia concentration
	525						MSN – Nursing major/Nurse Anesthesia concentration
	526						MSN – Nursing major/Nurse Anesthesia concentration
	530	504	& 505			A – Prereq: 515	
	531	530	& 501				

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
New Courses	532	510		507			
	533			532			MSN – Nursing major/Homeland Security Nursing concentration
(Spring 2006)	534	504	& 533			A – Prereq: 505, 515	MSN – Nursing major/Homeland Security Nursing concentration
	535	534					MSN – Nursing major/Homeland Security Nursing concentration
	536	535					MSN – Nursing major/Homeland Security Nursing concentration
	544						MSN – Nursing major/Nurse Anesthesia concentration
	545						MSN – Nursing major/Nurse Anesthesia concentration
	546						MSN – Nursing major/Nurse Anesthesia concentration
	547						MSN – Nursing major/Nurse Anesthesia concentration
	548						MSN – Nursing major/Nurse Anesthesia concentration
	549						MSN – Nursing major/Nurse Anesthesia concentration
	550	504	& 505			A – Prereq: 515	
	551	550	& 501	582			
	552	550					
	560	504	& 505	510		A – Prereq: 515	
	561	560	& 501	582			
	565			566			
	566					O- Registration Permission: Consent of instructor	
	570	504	& 505			A – Prereq: 515	
	571	570	& 510				
	572	571					
	573	572					
	577					O- Registration Permission: Consent of instructor	
	582	501					
	583					R – enrollment in or completion of graduate clinical courses	
	585	See Primary					
	590	510		501			
	591	510		501			
	593					O- Registration Permission: Consent of instructor	
	600						PhD – Nursing major
	601						PhD – Nursing major
	603	601					
	605	603	& 610			R – inferential statistics course	
	606						
	607	603					

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	608	601				R-inferential and multivariate statistics course(s)	
	609					O- Registration Permission: Consent of instructor	
	610						PhD – Nursing major
	612						
	613						
	614	601					

**Aviation Systems
Courses**

Effective: Fall 2006

**NO PREREQUISITES, COREQUISITES, REGISTRATION RESTRICTIONS
WERE SUBMITTED**

*Enforced by registration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
(169) Aviation Systems							
	500						
	501						
	502						
	503						
	504						
	505						
	506						
	507						
	508						
	509						
	510						
	511						
	512						
	513						
	514						
	515						
	516						
	521						
	522						
	531						
	550						

**Comparative and Experimental Medicine – Graduate School of Medicine
Graduate Courses**

Effective: Fall 2006

***Enforced by registration**

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
(262) Comp/Exp Med – Graduate School of Medicine							
	500	None		None			
	502	None		None			
	508	None		None			
	541	None		None			
	545	None		None			
	600	None		None			
	610	None		None			
	611	None		None			

**Comparative and Experimental Medicine – Veterinary Medicine
Graduate Courses**

Effective: Fall 2006

***Enforced by registration**

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
(261) Comp/Exp Med - Vet Med							
	500						MS – Comparative and Experimental Medicine major
	501						
	502						
	503						
	505						
	506						
	530	See Primary					
	561						
	600						PhD – Comparative and Experimental Medicine major

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
	602					O - Registration Permission: Consent of instructor	
	603					O - Registration Permission: Consent of instructor	
	604					O - Registration Permission: Consent of instructor	
	605						
	606						
	607						
	608						
	609						
	610						
	651	See Primary					
	652	See Primary					

**College of Social Work
Graduate Courses**

Effective: Fall 2006

**NO PREREQUISITES, COREQUISITES, REGISTRATION RESTRICTIONS
WERE SUBMITTED**

*Enforced by registration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
(905) Soc Work							
	500						
	501						
	502						
	503						
	504						
	506						
	508						
	509						
	514						
	515						
	516						
	518						
	521						
	523						
	524						
	525						
	526						
	530						
	532						
	534						
	535						
	540						
	541						
	543						
	547						
	550						
	551						
	552						
	564						
	566						
	580						
	581						
	582						
	583						
	584						
	585						
	593						
	600						
	601						
	602						
	604						
	605						
	606						
	608						
	612						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A -Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
	613						
	640						
	650						
	660						
	670						
	693						

**College of Law
Courses**

Effective: Fall 2006

*Enforced by registration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or <u>OR</u>)	*Coreq	*Coreq (must indicate & or <u>OR</u>)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
(613) Law							
	801						
	802						
	803						
	804						
	805						
	806						
	807						
	808						
	809						
	810						
	812						
	813					A-Coreq: 920 for students electing concentration in advocacy	
	814						
	815						
	818						
	819					A- Prereq: 818	
	821						
	822						
	826					O-Not available to students with business background.	
	827						
	828					A-827	
	830					A-Prereq/Coreq: 827	
	833						
	834						
	840						
	842						
	843						
	844						
	847					A- Prereq: 812	
	848						
	849						
	850						
	854						
	855						
	859					A-Prereq: 809	
	862						
	863						
	866						
	867						
	873						
	877						
	879						
	881						
	886						
	887						
	895						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq (unenforced) R - Recommended Background O - Other Comment	*Registration Restriction
	896					A-Prereq: 895	
	898					A-Prereq: 895	
	899					A-Prereq: 895	
	905					A-Prereq: 920 O-Third-year standing	
	908						
	915						
	916						
	918						
	920					A-Coreq: 813 for students electing concentration in advocacy A-Prereq: 813 for all other students	
	921						
	922					A-Prereq: 920	
	927						
	928						
	935						
	937					A-Prereq: 935, 973 R-Prereq: 818	
	940						
	941					A-Prereq: 940	
	943						
	946					A-Prereq: 818, 826, 827, 972 A-Prereq/Coreq: 842	
	947					A-Prereq: 813, 920, and either 854 or 855. O- Consent of instructor O-Third-year standing	
	950						
	956						
	957						
	958						
	959						
	960						
	962						
	972					A-Prereq: 818	
	973					A-Prereq/Coreq: 935	
	975						
	978					A-Prereq: 818, 972	
	980						
	983						
	985						
	990						
	991						
	993					O-Second-year standing	
	994						
	995						
	996						
	997						
	998						

**College of Veterinary Medicine
Courses**

Effective: Fall 2006

**NO PREREQUISITES, COREQUISITES, REGISTRATION RESTRICTIONS
WERE SUBMITTED**

*Enforced by registration

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
(987) Vet Med							
	801						
	802						
	804						
	805						
	806						
	811						
	813						
	814						
	816						
	815						
	821						
	822						
	823						
	824						
	825						
	826						
	827						
	831						
	832						
	833						
	834						
	835						
	836						
	837						
	840						
	841						
	842						
	843						
	844						
	845						
	846						
	851						
	852						
	853						
	854						
	855						
	856						
	857						
	858						
	861						
	862						
	864						

Academic Discipline	Course Number	*Prereq	*Prereq (must indicate & or OR)	*Coreq	*Coreq (must indicate & or OR)	A - Additional Prereq/Coreq R - Recommended Background O - Other Comment	*Registration Restriction
	865						
	867						
	868						
	870						
	871						
	873						
	874						
	877						
	878						
	879						
	881						
	882						
	883						
	886						
	889						
	887						
	890						
	891						
	892						
	893						
	897						
	898						
	899						

COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

REQUEST FOR ELECTRONICALLY-MEDIATED COURSE (TENNESSEE ON-LINE)

Agricultural and Extension Education (042)

525 Curriculum Development in Agricultural and Extension Education (3)

Effective: Summer 2005

COLLEGE OF EDUCATION, HEALTH, AND HUMAN SCIENCES

HEALTH AND SAFETY PROGRAMS

ADD GERONTOLOGY GRADUATE CERTIFICATE PROGRAM

Add new Certificate in Gerontology and include in the chart on page 18 and with the Gerontology Minor on pages 201, 267, and 274 of the Graduate Catalog to appear as follows:

Certificate in Gerontology

The graduate certificate in gerontology is intended for pre- and in-service workers in gerontology. The program of study follows the guidelines of the Association of Gerontology in Higher Education and is offered under the purview of the University's Gerontology Colloquy. Program requirements are the following:

REQUIREMENTS

Nine (9) hours covering the focus areas of the interdisciplinary field of gerontology

¹ Physical	3
Social	
Social Work 566	3
Behavioral	
Educational Psychology 523	3
Internship or practicum	6
² Electives	6

¹Select one of the following: Health/Public Health 650; Nutrition 518.

²At least six hours from: Educational Psychology 504; Exercise Science/Public Health 635; Health 406, 523, 570, Health 585 (cross-listed with several disciplines; may be repeated, 3 hours maximum); Nursing 400; Social Work 540.

Effective: Fall 2006

REQUEST FOR NON-STANDARD FORMAT COURSES

Counselor Education 555 (3)

May 9 – August 5
(13 weeks, 45 contact hours)

Educational Administration and Policy Studies 690 (3)

June 4 – July 2
(5 weeks, 45 contact hours)

Elementary Education 445 (3)

July 5-28
(3 weeks; 45 contact hours)

Reading Education 539 (3)

July 5 – 29
(4 weeks; 45 contact hours)

Theory and Practice in Teacher Education 595 (3)

Topic: Science and Environmental Education in the Developing World
June 1 –21
(3 weeks; 45 contact hours)

Topic: Inquiry, Integration, and Differentiation through Environmental Science
June 13 – October 20
(Spans 18 weeks; 66 contact hours)

REQUEST FOR ELECTRONICALLY-MEDIATED FORMAT COURSE (TENNESSEE ON-LINE)

Public Health 580 (3)

Topic: Public Health Leadership

Effective: Fall 2005

COLLEGE OF NURSING

A new MSN concentration, and Post-Master's Certificate, in Homeland Security Nursing has been approved by the faculty of the College of Nursing and is submitted to the Graduate Council for consideration.

A new concentration, and post-master's certificate, in Homeland Security Nursing requires the addition of five new courses: 532, 533, 534, 535, 536.

I. Course Changes

Nursing (720)

ADD

532 Homeland Security Threats (3) A foundation course providing an in-depth and multi-perspective survey of disasters and other threats to homeland security and public health. Exploration of the phenomena of mass casualties and homeland security threats in modern society. Prereq: 510; Coreq: 507.

533 Homeland Security Nursing I (5) Advanced planning and leadership in response to human-made and natural disasters, as well as mass casualties related to terrorism or breach of homeland security. Didactic (2) and clinical (3). Coreq: 532.

534 Homeland Security Nursing II (5) Continuation of Homeland Security Nursing I, providing emphasis on incident management, including ethical issues, and the impact of culture and psychology on the human response to terrorism, disaster, mass casualty events, and large population emergencies. Didactic (2) and clinical (3). Prereq: 504, 505, 515, 533.

535 Homeland Security Threats III (7) Application of advanced practice knowledge and skills to assess preparedness for mass casualty and homeland security disasters, toxic exposures or terrorist activity; to mobility available resources; and effectively use communication to integrate local response into broader area, national, and international response. Didactic (2) and clinical (5). Prereq: 534.

536 Homeland Security Threats IV (8) Advanced care concepts provided to those affected by specific types of disasters, toxic exposures, terrorist events, or large population emergencies. Didactic (2) and clinical (6) Prereq: 535.

Effective: Spring 2006

II. Program Changes

ADD HOMELAND SECURITY NURSING CONCENTRATION

Page 264-5, under "Program Requirements", Concentration – add another line:

532-536 Homeland Security Nursing courses 28

Page 266, add concentration showcase

HOMELAND SECURITY NURSING

305 Transitions to Professional Nursing 5
 *333 Health Assessment 3
 *351 Pharmacology I 2
 511 Statistical Application to Nursing Research
 (OR equivalent) 3
 *319 Pathophysiology of Health Deviations 4
 *406 Pharmacology II..... 2
 454 Professional Leadership Issues 2
 501 Nursing Research 3
 504 Advanced Health/Physical Assessment 3
 505 Advanced Pharmacology 3
 507 Concepts for Advanced Practice Nursing: Health
 Promotion and Health Policy 4
 515 Advanced Clinical Pathophysiology..... 3
 532 Homeland Security Threats 3
 533 Homeland Security Nursing I 5
 534 Homeland Security Nursing II 5
 535 Homeland Security Nursing III 7
 536 Homeland Security Nursing IV 8
 582 Scholarly Inquiry for APN..... 3

ADD GRADUATE CERTIFICATE IN HOMELAND SECURITY NURSING

Revised language for p. 268, under "Graduate Certificates", paragraph 2

FROM

The total hours will vary depending on the student's academic record, clinical experience and objectives. Students must complete a minimum of 12 credits. Most students complete 16-20 hours of course credit with the exception of those pursuing the nurse anesthesia certificate. [continue with rest of paragraph]

TO

The total hours will vary depending on the student's academic record, clinical experience and objectives. Students must complete a minimum of 12 credits. Most students complete 16-20 hours of course credit with the exception of those pursuing the nurse anesthesia or the homeland security nursing certificate. [continue with rest of paragraph]

Add the following requirements for the Homeland Security Nursing Certificate (after Family Nurse Practitioner)

- **Homeland Security Nursing**

Course requirements are 532, 533, 534, 535, 536, plus additional hours as determined by the college.

Effective: Fall 2006

Attachment 4

POSTDOCTORAL PROGRAM AND POLICIES

Postdoctoral scholars pursue advanced educational experiences to enhance their preparation for academic and/or research careers. These scholars provide major contributions to the research and scholarly missions of the University. The policies and program outlined below are designed to enhance and promote the postdoctoral experience as recommended by the Committee on Postdoctoral Education of the Association of American Universities¹ and the Committee on Science, Engineering, and Public Policy of the National Academies of Sciences and Engineering and the Institute of Medicine².

Definition of a Postdoctoral Appointment:

- The appointment is viewed as preparatory for a full-time academic and/or research career and is not part of a clinical training program;
- The appointment involves substantially full-time research or scholarship;
- The appointment is never permanent, and the total postdoctoral experience allowed by the University of Tennessee, including all such appointments both internal and external to the University, may not exceed 6 years;
- The appointee was recently awarded a Ph.D. or equivalent doctorate in an appropriate field or is a more senior doctorate-holding individual pursuing a career change;
- The appointee is supervised by a faculty member (a faculty member as defined in the Faculty Handbook);
- The appointee has the freedom, and is expected, to publish the results of his or her research or scholarship obtained during the period of the appointment.

¹ *Report and Recommendation*, Committee on Postdoctoral Education, Association of American Universities, March 31, 1998, www.aau.edu/reports/PostdocRpt.html .

² *Enhancing the Postdoctoral Experience for Scientists and Engineers: A Guide for Postdoctoral Scholars, Advisers, Institutions, Funding Organizations, and Disciplinary Societies*, Committee on Science, Engineering, and Public Policy, National Academy of Sciences, National Academy of Engineering, and Institute of Medicine, National Academy Press, Washington, DC, 2000, www.nap.edu/books/0309069963/html/ .

Postdoctoral Appointments:

The postdoctoral program at UT promotes timely progression of postdoctoral scholars preparing for full-time academic and/or research careers. Two different types of appointments are available, postdoctoral trainees and postdoctoral associates. **The trainee appointment is available only for University-approved postdoctoral training programs.** The postdoctoral trainee is appointed full-time to conduct research or scholarship under the supervision of a faculty mentor. The duration and terms of the appointment are dependent on the program and funding.

Postdoctoral and senior postdoctoral associates are exempt professional staff employees with full benefits. The duration of the appointment for either associate level is dependent on funding and work performance and may not exceed 3 years. The **postdoctoral associate** appointment is intended to provide experience necessary for progression to a more senior postdoctoral position or more permanent employment. The appointee works under the supervision of a faculty mentor and may have responsibilities for supervision and instruction of students and staff. When appropriate, the associate may apply for research grants and contracts that are underwritten by the mentor and approved by the Department Head.

The **senior postdoctoral associate** has substantial prior postdoctoral experience at UT or elsewhere. The senior postdoctoral associate may also be a more senior scholar seeking a postdoctoral experience that will promote a career or field change. This appointment is intended to be the final postdoctoral experience for transition to more permanent employment. The appointee works under a faculty mentor and is expected to have the capacity for independent and collaborative work. The senior associate, like the associate, may have responsibilities for supervision and instruction of students and staff and, when appropriate, may apply for research grants and contracts that are underwritten by the mentor and approved by the Department Head.

Appointment Review and Termination:

The appointee must hold a Ph.D. or equivalent doctoral degree or provide a letter from the degree-granting institution that all requirements for the degree have been completed prior to the initial appointment.

Recruitment of postdoctoral scholars may include advertisement through mechanisms appropriate to each field; however, in recognition of the special needs of externally funded investigators and the limited duration of postdoctoral appointments, an alternative procedure is provided that permits recruitment and hiring of postdoctoral scholars without advertisement or search.

Offer letters to postdoctoral scholars are required and must state the conditions of the appointment including the scholar's responsibilities, appointment duration, contingency of appointment on availability of funds, starting salary and benefits. Offer letters must be approved by the faculty mentor, the Department Head, and the Dean of the respective college. Copies of all offer letters must be maintained in department and college personnel files and forwarded to the Dean of the Graduate School.

The faculty mentor states in writing his/her expectations when the offer is extended. Rights to authorship of publishable work, intellectual properties, and project areas developed by the postdoctoral scholar must be addressed in the statement of expectations. Copies of mentor statements are maintained in the department and college personnel files and forwarded to the Dean of the Graduate School.

Discussions of mentor expectations and postdoctoral scholar rights should continue throughout the appointment as the faculty mentor oversees the educational and training experience of the postdoctoral scholar. The faculty mentor provides to the postdoctoral scholar each year a written evaluation of his/her performance and development, and copies of the evaluation are forwarded to the Department Head and the Dean of the Graduate School.

Minimum salaries for new postdoctoral appointments are determined at departmental and college levels. Minimum salary levels are market-based and comply with guidelines of appropriate sponsoring agencies. Departments and programs must review their recommended minimal salary levels at least every 2 years to determine if they remain appropriate.

Terminations of all postdoctoral appointments, including postdoctoral training appointments, must follow policies and procedures currently in place for all UT employees.

Responsibilities of the Faculty Mentor and Administration:

The relationship between the postdoctoral scholar and the faculty mentor is critical in the postdoctoral experience. The mentor, in most cases, is responsible for obtaining the financial resources required for the scholar's compensation package and for providing a working environment that promotes and enhances the scholar's professional development. The mentor is expected to insure the scholar complies with all applicable policies and guidelines for responsible and ethical conduct of research and for regulatory compliance. The faculty mentor provides annual performance evaluations and is expected to assume primary responsibility for career advising and assistance in job placement.

The Department Head and Training Program Director have direct responsibility for insuring that the qualifications of both the mentor and scholar are appropriate as defined in this document. In addition, the Head or Director insures the working environment, compensation, and resources provided for the postdoctoral scholar are adequate and meet

established guidelines for the Department or Program. The Head or Director approves the initial appointment, requests for changes of appointment, and grant or contract proposals by postdoctoral scholars. The Head or Director has responsibilities for monitoring professional development of postdoctoral appointees and for providing mediation services at the department or program level for grievances and conflicts.

The Dean of the Graduate School is the central administrative officer with oversight responsibilities for postdoctoral affairs. The Dean has the primary responsibility to assure consistent application of postdoctoral policies across the institution. The Dean reviews postdoctoral appointments and evaluations and provides final approval of requests for appointment extensions. In addition, the Dean provides mediation services for grievances and conflicts that cannot be resolved at the local level. The Dean has oversight responsibilities for postdoctoral training programs and is responsible for the approval of new programs and the review and recommendations for continuance or closure of existing programs.

Postdoctoral Training Programs:

Postdoctoral training programs provide specialized training in areas deemed critical by the University and funding agencies. A trainee participates in an intensive educational and training experience preparing him/her for a career in a specific academic/research area including more advanced postdoctoral experience. Trainee appointments are typically intended for scholars who have been recently awarded doctorates, but exceptions may be made for more senior scholars seeking specific training offered through a particular program.

Benefits provided to trainees are limited but must include the following:

- Paid comprehensive health plan for the trainee and dependents
- Tuition when appropriate
- All University holidays
- Personal days to be used for paid absences including illness
- Professional development funds.

When appropriate, programs may add additional benefits. Minimum realistic personal days are determined by the program but must be approved by the Dean of the Graduate School. Absences exceeding allotted personal days per appointment year may be granted under certain circumstances with approval by the faculty mentor, the Training Program Director, and the Dean of the Graduate School. Professional development funds are provided by the mentor and/or the program and may be used for all appropriate expenditures including professional travel. External funding agencies may impose additional requirements.

Postdoctoral training programs may be funded by external granting agencies or may be funded internally when proposed by departments, colleges, or interdisciplinary groups. Proposals for both external and internal training programs must be approved by the respective Department Heads and College Deans. The Dean of the Graduate School

determines the review processes required for initial institutional approval, continuance, and termination of internal training programs. Proposals for internal training programs must address the following points:

- The objectives of the program and the benefits to the trainees and the University
- Benefits and stipend/salary scale
- Program administration and responsibilities
- Program faculty and responsibilities
- Recruitment and committee approval of trainee candidates
- Assurance of proper conduct of research and compliance with regulatory standards and University policies
- Program-specific training including seminars and colloquia
- Professional development including English language training for appropriate international trainees, scientific writing, proposal preparation, career advising, and professional development funds
- Evaluation of trainees and mentors
- Grievance and conflict mediation
- Termination of appointments

GRADUATE DEANS GROUP**COMMITTEE ON POSTDOCTORAL EDUCATION****REPORT AND RECOMMENDATIONS**

March 28, 2005

Members

Robert N. Moore, Professor and Associate Dean, College of Veterinary Medicine (Chair)

J. Douglas Birdwell, Professor, Electrical and Computer Engineering

Christine R. B. Boake, Professor and Head, Ecology and Evolutionary Biology

Clark J. Brekke, Professor and Assistant Dean, College of Agricultural Sciences and
Natural Resources

William M. Dunne, Professor and Associate Dean, College of Arts and Sciences

William F. Harris, Associate Vice Chancellor for Research

Soren P. Sorensen, Professor and Head, Physics

Background

Anne Mayhew, Vice Chancellor for Academic Affairs and Dean of the Graduate School, directed the formation of the committee with charges to evaluate the postdoctoral experience at the University and to make policy recommendations based on the evaluations. Dr. Mayhew expressed concern that the University was not adequately addressing the needs of postdoctoral scholars.

The committee received valuable input from Human Resources, the Center for International Education, Linda Sangster (former Coordinator of the Office of Postdoctoral Affairs at St. Jude Children's Research Hospital), and interested faculty colleagues. In addition, two reports addressing postdoctoral education provided important information and guidance:

1. *Report and Recommendation*, Committee on Postdoctoral Education, Association of American Universities, March 31, 1998, www.aau.edu/reports/PostdocRpt.html
2. *Enhancing the Postdoctoral Experience for Scientists and Engineers: A Guide for Postdoctoral Scholars, Advisers, Institutions, Funding Organizations, and Disciplinary Societies*, Committee on Science, Engineering and Public Policy, National Academy of Sciences, National Academy of Engineering, and Institute of Medicine, National Academy Press, Washington, DC, 2000, www.nap.edu/books/0309069963/html/

The Association of American Universities (AAU) report was the initial attempt at the national level to address issues influencing postdoctoral education. The National Academies (NAS) guide provided a more comprehensive assessment of postdoctoral education in this country.

The AAU report noted that, although postdoctoral training has become a prerequisite for tenure-track academic appointments in several disciplines, “there is reason to question how well this particular form of education has been incorporated into the overall academic enterprise.” The postdoctoral experience evolved independently in academic institutions “lacking a consistent set of standards and expectations.” Failures responsible for these inconsistencies included the lack of policies specific for postdoctoral appointments and the lack of central administrative oversight for postdoctoral education. Concerns addressed in the AAU report included:

- The increasing proportion of postdoctoral appointments granted to international scholars on temporary visas and the failure of institutions to ensure equal treatment of foreign and domestic postdocs;
- The increasing frequency of postdoctoral scholars with multiple postdoctoral appointments and the failure of institutions to establish and/or enforce time limits on postdoctoral appointments; and
- The failure of institutions to recognize and act upon the educational significance of the postdoctoral appointment.

To promote development of “a consistent set of standards and expectations,” the AAU committee suggested a standard definition of a postdoctoral appointment and recommended “universal adoption and consistent application of the definition by all universities, government agencies, and private foundations involved in postdoctoral education.” The AAU committee further suggested a model for “systematization of postdoctoral education.” Important points of the model included the following:

- The university should establish core policies applicable to postdoctoral appointments, and a central administrative officer should be assigned responsibility to assure consistent application of those policies across the institution.
- The postdoctoral appointment should remain a temporary appointment with a primary purpose of providing additional research or scholarly training for an academic or research career.
- The university should establish explicit guidelines for recruitment and appointment of postdocs and for the duration of their appointments.
- Postdoctoral appointees should receive a letter of appointment jointly signed by the faculty mentor and the Department Head or other responsible official, and a statement of goals, policies, and responsibilities applicable to postdoctoral education should accompany the letter.
- Departments and faculty mentors should provide career advising and job placement assistance appropriate to their postdoctoral appointees.

The NAS guide expanded this model with additional recommendations including the establishment of an institutional postdoctoral office to aid the central administrative officer in assuring consistent application of policies and to provide additional functions including organizing orientation and professional development programs; encouraging best practices by mentors; acting as liaison between postdocs, advisors, and administrators; providing tracking for current and former postdocs; and sponsoring a postdoctoral association.

Applying the AAU concerns to The University of Tennessee, Knoxville, the committee made the following observations:

- The University allows postdoctoral appointments in only one category, Postdoctoral Research Associate, which is an exempt professional staff position of restricted duration.
- There are 174 postdoctoral research associates appointed at the University (Nov., 2004). Fifty percent of these appointments are in agricultural and life sciences disciplines, 37% are in the physical and mathematical sciences, and 12% are in engineering (Table I).
- 74% of the appointees are international scholars.
- 14% of the 174 postdoctoral scholars are on term appointments.
- Regular postdoctoral appointments may be continued beyond the 3 year limit, and term appointments have been extended beyond 12 months.
- Postdocs at this university are recruited primarily by faculty investigators who hold external grant or contract funding adequate to pay the appointee's compensation package.
- There are no policies specific for postdoctoral appointments, and there is no central administrative officer assigned responsibility for oversight of postdoctoral education.

Based on the concerns expressed in both the AAU report and the NAS guide, UTK shows little evidence of recognizing and acting upon the educational significance of the postdoctoral appointment. The University follows the traditional postdoctoral model relying almost exclusively on the faculty mentor to determine the postdoctoral experience. There is no formal mechanism for progression of postdocs to aid in transition to permanent jobs, and there are no policies to ensure the quality of the postdoctoral experience.

Recommendations

Committee deliberations concentrated on the current status of postdoctoral education at UTK. The primary focus was improvement of postdoctoral education at UTK to enhance benefits to the postdoctoral scholar, the faculty mentor, and the University. The committee makes the following recommendations:

The committee proposes for adoption a standardized program and associated policies for postdoctoral education at UTK (see *Postdoctoral Program and Policies* document). Key points of the Program and Policies are (1) definition of a postdoctoral appointment meeting both the needs of the University and the spirit and intent of the AAU recommendation; (2) restructuring of postdoctoral appointments to recognize the various needs of postdocs, promote progression and transition to permanent employment, and enhance the research competitiveness of faculty in certain disciplines; (3) assignment to the Dean of the Graduate School oversight responsibility for postdoctoral education; (4) clarification of the rights, responsibilities, and expectations of postdoctoral scholars; and (5) description of the responsibilities of the faculty mentor and appropriate administrative officials.

The committee recommends discouraging the use of 12 month term postdoctoral appointments for probationary purposes. The committee further recommends discouraging extension of term postdoctoral appointments beyond the initial duration of appointment.

The committee recommends establishing a postdoctoral affairs office answering to the Dean of the Graduate School. This service may be in addition to or in association with existing graduate service functions but should be staffed by a full-time staff coordinator. The functions of this service should include the following:

- assuring consistent application of policies;
- preparing and maintaining a current postdoctoral handbook;
- organizing orientation and professional development programs;
- interacting with the Center for International Education to address the special needs of international postdocs;
- encouraging best practices by mentors;
- acting as liaison between postdocs, mentors, and administrators;
- incorporating data management for tracking of current and former postdoctoral scholars;
- coordinating training program approval and review; and
- coordinating and sponsoring an institutional postdoctoral association.

Table I. Postdoctoral Research Associate appointments, November 2004

Department	Regular	Term	Total
Microbiology	3	1	4
Biochemistry/Cellular&MolecBiology	7	5	12
Botany	5	0	5
Chemistry	22	2	24
Earth & Planetary Science	4	0	4
Mathematics	1	1	2
Physics	26	3	29
Ecology & Evolutionary Biology	9	1	10
School of Genome Science & Tech	3	0	3
Nutrition	1	0	1
Materials Science & Engineering	10	3	13
Civil & Environmental Engineering	3	1	4
Electrical & Computer Engineering	2	0	2
Mech, Aero & Biomed Engineering	2	0	2
Theory & Practice-Teacher Ed	1	0	1
Entomology & Plant Pathology	1	0	1
Agricultural Economics	1	0	1
Entomology & Plant Pathology	1	0	1
Biosystems Engr & Env Science	3	0	3
Forestry, Wildlife & Fisheries –Exp	7	2	9
Animal Science/Nutrition	1	0	1
Plant Sciences – Exp	2	0	2
Small Animal Clinical Services	1	1	2
Comparative Medicine	1	0	1
Microbiology – Vet Med	4	0	4
Pathobiology	12	5	17
Ctr for Envir Biotechnology	2	0	2
UT Food Safety Ctr of Excellence	3	0	3
Ctr for Biomarker Analysis	1	0	1
Ctr of Excellence in Structural Biology	1	0	1
Racheff Chair of Excellence	3	0	3
Joint Inst for Computational Science	6	0	6
TOTALS	149	25	174