Undergraduate Curriculum Committee (UCC)
Meeting Minutes
Thursday, September 22, 2016
2:00 pm
Brewster B-104

Regular Members Present:
Michael Dingfelder
Gail Ratcliff
Jean-Luc Scemama - Chair
David Batts
Mark Johnson
Mark Richardson
Karen Vail-Smith – Vice Chair
Nancy Spaulding

Regular Members Excused:

Ex-Officio Members Present:
Josie Bowman-Secretary
Lori Flint
Patrick Rider
David Wilson-Okamura
Benavidez Rachelle--Student Representative for Ryan Beeson

Ex-Officio Members Excused:

Institutional Planning and Accreditation:
Karen Summey
Patricia Gregory

Office of the Registrar:
Diane Coltraine

I. The meeting was called to order by UCC Chair Scemama.

UCC Organizational Meeting Minutes for September 8, 2016 were approved.

II. College of Allied Health
   Department of Nutrition
   (Michael Kennedy, Kate Wilson)
1. Revision of Degree: Nutrition and Dietetics, BS
   o Increase minimum GPA from 2.5 to 3.0 to remain in program

   **Revisions:** Requested that the Memorandum of Request should be changed to reflect the current name of the program.

   **Actions:** Motion to approve the change requested above. The motion passed.

III. College of Business
   Department of Finance
      (Scott Below)

   1. Proposal of New Course: FINA 4961

   **Revisions/Discussion:**
   The course description for FINA 4964 states: “May be repeated for credit with change of topic and consent of chair.” 1.) The committee recommended that this course proposal (FINA 4961) be edited to reflect the same statement. 2.) Suggestions were made to strengthen course justification including that the course provides student’s exposure to potential employers. 3.) Under Method of Delivery, the committee asked to have “Face-to-face’ checked for Expected Future delivery.

   **Actions:** Approved as amended.

IV. Thomas Harriot College of Arts and Sciences
   Department of Philosophy and Religious Studies
      (Lee Johnson)

   1. Proposal of New Courses: RELI 1500, 2697
   2. Revision of Minor: Religious Studies

   **Revisions/Discussion:**
   The memo does not seem to capture what is being changed in the catalog. Indicate on memo that some courses were merged and some moved. Delete last sentence in the first paragraph of the memo. State that courses were revised based on gaps identified in the program. The minor hours were decreased in revision based on changes from last year.

   RELI 2697 course proposal form: Suggested edits included removal of the last course objective and editing the objective that uses the verb—“examine”.
RELI 1500 course proposal form: Discussion regarding the title of the course. The presenters emphasized that there are multiple perspectives and the conclusion is not only one viewpoint. Edit the fourth objective to include “Apply”.

**Action:** Approved as amended

V. College of Fine Arts and Communication

School of Art and Design
(Cynthia Bickley-Green; Kate Bukoski)

1. Revision of Degree: BFA ART Education Degree

Committee members pointed out the following:
- Need to clarify that what is being proposed with the hours that are listed.
- The catalog copy is not from the current catalog.
- Memo of confirmation from Ms. Coltraine was over a year old

**Revisions/Discussion:**

The packet should reflect the current catalog copy. D. Coltraine will send the current catalog copy to the presenters. Notify all affected units. Change the listing of courses—since one is out of order.

**Action:** Resubmit the packet using the correct catalog pages along with the notification of affected unit.

VI. Thomas Harriot College of Arts and Sciences

Interdisciplinary Program in Russian Studies
(Elena Murenina)

1. Proposal of New Courses:
   - FORL 1551:
   - FORL 2220:
   - RUSS 4700:

2. Revision of a Minor: Russian Studies Interdisciplinary Minor

**Revisions/Discussion:**

a. Memorandum of Request: Edit memo to remove the last sentence in the first paragraph since the changes were more than editorial. Remove statement indicating that a substantial amount of information from the proposed course has been included in another course.
b. FORL 1551 course proposal form: Need to add to the justification that changes were made based on foundations assessment. In 18 d—edit the statement to remove the various methods of communication.
c. FORL 2220 course proposal form: No edits suggested.
d. RUSS 4700 course proposal form: In the learning outcomes, suggested to remove the word comprehensive and to use demonstration of listening comprehension.

**Action:** Approved as amended.

**VII. Thomas Harriot College of Arts and Sciences**

Department of Chemistry
(James Collins)

1. **Revision of a Degree: BS in Chemistry**

   **Revisions/Discussions:**

   a. Memorandum of Request: Discussed justification for making changes related to the American Chemical Society (ACS) requirements which included an in-depth course and listing of restrictive electives.
   b. CHEM 4522 course proposal form: The justification (#9) should include more detail about the ACS requirements and list some of the topics added. Add a decimal within the CIP code. Include the lecture and lab components in the course description (2 lecture and 3 lab hours per week). Edit the first objective and use apply instead of employ.
   c. CHEM 4550 course proposal form: Change statements in number 8 in the proposal to past tense.
   d. Marked Catalog Copy: Some problems with the way the electives are listed. Under electives- PHYS 3700 and PHYS 3701; edit statement in catalog copy in preface statement under laboratory, and research practicum for clarity.

   **Action:** Approved as amended.

**VIII. Old Business:**

1. **College of Engineering and Technology**
   Industrial and Systems Engineering
   - Change prefix from ISYS to ISE

   **Revisions/Discussion:**

   Memo and Signature page submitted as requested by committee.

   **Actions:** Approved

**XIII. UCC Goals for 2016-2017**

**Action:** Tabled to next meeting
IX. New Business

Referred to memo from John Stiller—will review at next meeting.

Adjourned at: 5pm

Minutes submitted by J. Bowman/Gail Ratcliff
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<th>Curricular Actions Reviewed 9/22/2016</th>
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II. College of Allied Health - Department of Nutrition Marked Catalog Copy

http://catalog.ecu.edu/preview_entity.php?catoid=8&ent_oid=714&returnto=523

Department of Nutrition Science

Nutrition is an integrative science that draws from physiology, biology, chemistry, behavior sciences and other disciplines to understand food, behavior and health. In addition to preparing students to become registered dietitians/nutritionists (RDN), nutrition science is a great pre-professional major for careers in the allied health sciences. Two concentrations within the degree are offered: the didactic program in dietetics (DP) concentration and the nutrition with science (NS) concentration. The DP concentration is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND) which is a specialized accrediting body recognized by the US Department of Education. Completing an accredited DP program is the first step in becoming a registered dietitian/nutritionist (RDN).

The DP concentration requires 120 semester hours and is suited only for students who intend to pursue the RDN credential. Admission to the didactic program in dietetics requires a minimum cumulative 3.0 GPA from ECU. Program admission is very competitive and requires completion of all prerequisites and an application submitted in February of the preceding year. There is a cap of 26 students enrolled as a cohort each year into the DP concentration.

The nutrition with science concentration (NS) requires 120 semester hours and includes 16 s.h. of electives. This concentration promotes elective flexibility to support a variety of professional goals. The NS concentration is well suited for pre-professional programs in occupational therapy, physician assistant studies, physical therapy, dental medicine, medicine, optometry, pharmacy, and veterinary medicine. Students should consider minors in areas that complement their career goals. Suggested minors could include community health-public health services, business, psychology, exercise science, hospitality management, or health promotion. There is no cap on enrollment for entry into the NS concentration. Because there are few pre-requisite requirements for the upper-level NUTR courses within this concentration, it is well suited for students who transfer from other programs and other universities. Student must maintain a 2.5 GPA minimum cumulative 3.0 GPA to stay in this concentration.

The Department of Nutrition Science also offers a dietetic internship that is accredited by ACEND. (See graduate catalog for details.) Completion of an accredited DP and an accredited dietetic internship or other accredited/approved supervised experience program are required to become a RDN. Completion of the BS degree in nutrition and dietetics does not guarantee admission into an internship. Admission into the ECU dietetic internship is competitive due to the limited availability of internship positions and requires admittance into the Graduate School, a minimum 3.0 GPA, and mean minimum GRE verbal reasoning and quantitative reasoning scores at the 30% percentile.
III. College of Business - Department of Finance Marked Catalog Copy

http://catalog.ecu.edu/preview_entity.php?catoid=8&ent_oid=690&returnto=523

FINA 4961 - Topics in Finance

1

May be repeated with change of topic for a maximum of 3 s. h. **P: Consent of chair.** New and advanced topics in finance.

http://catalog.ecu.edu/preview_entity.php?catoid=8&ent_oid=690&returnto=523

Courses

Finance

- FINA 1904 - Personal Finance
- FINA 2244 - Legal Environment of Business
- FINA 3004 - Survey of Financial Management
- FINA 3144 - Financial Markets
- FINA 3154 - Principles of Risk Management and Insurance
- FINA 3500 - Money Management for Entrepreneurs
- FINA 3544 - Commercial Property Insurance
- FINA 3554 - Principles of Real Estate
- FINA 3564 - Commercial Liability Insurance
- FINA 3724 - Financial Management
- FINA 3824 - Financial Analysis and Planning
- FINA 3904 - Investments
- FINA 4244 - Insurance Law
- FINA 4404 - Security Analysis and Portfolio Management
- FINA 4414 - Derivatives and Financial Risk Management
- FINA 4454 - International Finance
- FINA 4500 - Risk Management I
- FINA 4600 - Risk Management II
- FINA 4604 - Real Estate Financing
- FINA 4654 - Commercial Bank Management
- FINA 4700 - Advanced Risk and Insurance Topics
- FINA 4734 - Financial Management II
- FINA 4750 - Insurance Market Operations
- FINA 4854 - Employee Benefits and Retirement Planning
- FINA 4961 - Topics in Finance
- FINA 4964 - Topics in Finance
FINA 4984 - Topics in Real Estate
http://catalog.ecu.edu/preview_program.php?catoid=8&poid=1832

Finance, BSBA

The BSBA in finance offers the student an opportunity to study a wide variety of financial topics. Concentrations are offered in finance and risk management and insurance. Finance concentration students interested in corporate or managerial finance should consider choosing among the following courses as possible electives: ACCT 3551, ACCT 3621, FINA 4414, FINA 4454, and FINA 4734. Note: Students with an interest in banking or investments should consider the following courses as possible electives: FINA 4404, FINA 4414, FINA 4654, FINA 4734, and FINA 4964. Students with an interest in international finance should consider FINA 4404, FINA 4414, FINA 4454, and FINA 4964 as possible electives. Students with an interest in real estate should consider FINA 3554, FINA 4604, FINA 4654, and FINA 4964 as possible electives.

Minimum degree requirement is 123 s.h. of credit as follows:

1. Foundations curriculum requirements including those listed below - 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)

- COMM 2020 - Fundamentals of Speech Communication or
- COMM 2420 - Business and Professional Communication

- ECON 2113 - Principles of Microeconomics
- ECON 2133 - Principles of Macroeconomics
- MATH 1066 - Applied Mathematics for Decision Making

- PHIL 2274 - Business Ethics or
- PHIL 2275 - Professional Ethics

Choose 3 s.h. from:

- PSYC 1000 - Introductory Psychology
- SOCI 2110 - Introduction to Sociology

Choose 3 s.h. from:

One additional social science area: anthropology, communication, geography, history, political science, psychology, sociology.

2. Cognates - 6 s.h.
• ENGL 3880 - Writing for Business and Industry
• MATH 2283 - Statistics for Business

3. Business core - 36 s.h.

• ACCT 2401 - Financial Accounting
• ACCT 2521 - Managerial Accounting
• FINA 2244 - Legal Environment of Business
• FINA 3724 - Financial Management
• MGMT 3302 - Management of Organizations
• MGMT 4842 - Strategic Management
• MIS 2223 - Introduction to Computers
• MIS 3063 - Introduction to Management Information Systems
• MKTG 3832 - Marketing Management
• OMGT 3123 - Operations and Supply Chain Management
• OMGT 3223 - Business Decision Modeling

Choose one international perspectives course from:

• ACCT 4451 - International Accounting
• FINA 4454 - International Finance
• MGMT 3352 - International Business
• MKTG 3852 - Cultural Environment of International Business
• MKTG 4992 - International Marketing

4. Concentration area - 18 s.h.
(Choose one.)

Finance:

• FINA 3144 - Financial Markets
• FINA 3824 - Financial Analysis and Planning
• FINA 3904 - Investments

Choose 9 s.h. from (a minimum 6 s.h. must be above 3999 or have an ACCT prefix):

• ACCT 3551 - Intermediate Accounting I
• ACCT 3621 - Cost Accounting
• FINA 3154 - Principles of Risk Management and Insurance
• FINA 3554 - Principles of Real Estate
• FINA 4404 - Security Analysis and Portfolio Management
• FINA 4414 - Derivatives and Financial Risk Management
• FINA 4454 - International Finance
• FINA 4604 - Real Estate Financing
• FINA 4654 - Commercial Bank Management
• FINA 4734 - Financial Management II
• FINA 4961 - Topics in Finance
• FINA 4964 - Topics in Finance

Risk Management and Insurance:

• FINA 3154 - Principles of Risk Management and Insurance
• FINA 3544 - Commercial Property Insurance
• FINA 3564 - Commercial Liability Insurance
• FINA 4500 - Risk Management I
• FINA 4700 - Advanced Risk and Insurance Topics

Choose 3 s.h. from

• FINA 3904 - Investments
• FINA 4600 - Risk Management II
• FINA 4750 - Insurance Market Operations
• FINA 4964 - Topics in Finance
• MKTG 4762 - Services Marketing

5. Leadership and Professional Development - 9 s.h.

• BUSI 1200 - Strategy First
• BUSI 2200 - Experiential Leadership: Teams in Action
• BUSI 3200 - Professional Development and Ethical Leadership
• BUSI 4200 - Leadership Capstone
• Leadership and Professional Development Portfolio must be completed prior to graduation.

6. Electives to complete requirements for graduation.
IV. Thomas Harriot College of Arts and Sciences - Department of Philosophy and Religious Studies Marked Catalog Copy

http://catalog.ecu.edu/preview_entity.php?catoid=10&ent_oid=871&returnto=710

**RELI 1500 - Use and Abuse of the Bible**

3 FC: HU DD
An exploration of the biblical perspective on issues such as: sex, divorce, homosexuality, war, women’s rights, and the supremacy of Christianity. Biblical critical methods are introduced to interpret various passages and facilitate discussion on current topics of interest.

**RELI 2697 - Judaism**

3 FC: HU GD
An exploration of the varieties of Judaism from ancient Israel to the modern period, with a focus upon history, religious practices, social interaction, and sacred texts.

http://catalog.ecu.edu/preview_entity.php?catoid=10&ent_oid=871&returnto=710

Courses

Religious Studies

- RELI 1000 - Introduction to Religious Studies
- RELI 1500 - Use and Abuse of the Bible
- RELI 1690 - World Religions
- RELI 2340 - Religion and Science
- RELI 2350 - Religion and Sexuality
- RELI 2400 - Religion and Film
- RELI 2500 - Study Abroad
- RELI 2691 - Classical Islam
- RELI 2692 - Buddhism
- RELI 2693 - Hinduism
- RELI 2694 - Indigenous Religions
- RELI 2695 - Introduction to the Old Testament
- RELI 2696 - Introduction to the New Testament
- RELI 2697 - Judaism
- RELI 3000 - Motherhood of God in Asian Traditions
- RELI 3113 - Archaeology of the Old Testament World
- RELI 3114 - Archaeology of the New Testament World
- RELI 3500 - Methodology of Religious Studies
- RELI 3600 - Greek and Roman Religions
Religious Studies Minor

Mary Nyangweso, Director, 325-A Austin Building

Religious studies is a nonsectarian and interdisciplinary program designed to provide students with an understanding of religion as historical and cultural phenomena. Courses offered explore religion in its various dimensions – aesthetic, anthropological, ethical, historical, literary, philosophical, political, psychological, and sociological. The religious studies minor requires 18 s.h. credit. The major advisor should send a potential minor to the director for advising. Requirements for the minor are listed below. A maximum of 6 s.h. may be used to satisfy foundations curriculum requirements and requirements for the religious studies minor. No course work in the student’s major field of study will be accepted for credit toward the minor. Study abroad programs having the prior approval of the director will be accepted for a maximum 6 s.h. of credit toward the minor. Additional courses beyond those listed below will be accepted if they significantly further the student’s understanding of religion; prior approval by the director is required for additional courses. Departmental prerequisites may be waived in special cases by the department offering the course.

The minimum requirement for the religious studies minor is 18 s.h. as follows:

1. Core - 3 s.h.

- RELI 1000 - Introduction to Religious Studies or
2. Electives - 15 s.h.

Choose a minimum of 12 s.h. from religion (RELI) electives, and the remaining elective from either list of electives, a minimum of 6 s.h. of courses that are 2999 and above.

**Religion electives (12-15 s.h.)**

- ANTH 2010 - Societies Around the World
- ANTH 3002 - Cultures of East Asia
- ANTH 3003 - Cultures of Africa
- ANTH 3004 - Cultures of the South Pacific
- ANTH 3009 - Motherhood of God in Asian Traditions
- ANTH 4054 - Anthropology of Religion
- CLAS 3600 - Greek and Roman Religions
- ENGL 3630 - The Bible as Literature
- ENGL 3640 - Literature and Religion
- FORL 2600 - Literature in Translation: The Holocaust
- GRK 1001 - Ancient Greek Level I
- GRK 1002 - Ancient Greek Level II
- GRK 2003 - Ancient Greek Level III
- GRK 2004 - Ancient Greek Level IV
- HIST 3412 - A History of Christianity to 1300
- HIST 3413 - A History of Christianity 1300-present
- HIST 3627 - History of Japanese Buddhism
- HIST 3830 - Africa and Islam
- HIST 5360 - The Reformation, 1450-1598
- PHIL 1290 - Introduction to Philosophy of Religion
- PHIL 3290 - Philosophy of Religion
- POLS 3090 - Religion and American Politics
- PSYC 3314 - Psychology of Religion
- RELI 1000 - Introduction to Religious Studies
- RELI 1500 - Use and Abuse of the Bible
- RELI 1690 - World Religions
- RELI 2340 - Religion and Science
- RELI 2350 - Religion and Sexuality
- RELI 2400 - Religion and Film
- RELI 2500 - Study Abroad
- RELI 2691 - Classical Islam
- RELI 2692 - Buddhism
• RELI 2693 - Hinduism
• RELI 2694 - Indigenous Religions
• RELI 2695 - Introduction to the Old Testament
• RELI 2696 - Introduction to the New Testament
• RELI 2697 - Judaism
• RELI 3000 - Motherhood of God in Asian Traditions
• RELI 3113 - Archaeology of the Old Testament World
• RELI 3114 - Archaeology of the New Testament World
• RELI 3500 - Methodology of Religious Studies
• RELI 3600 - Greek and Roman Religions
• RELI 3690 - Women and Religion
• RELI 3691 - Islam in the Modern World
• RELI 3692 - Tibetan Religion and Culture
• RELI 3694 - Religions of Africa
• RELI 3698 - Mysticism
• RELI 3700 - Religion and Social Issues
• RELI 3796 - Paul and His Letters
• RELI 3800 - Religion and Violence
• RELI 3896 - Life and Teachings of Jesus
• RELI 3930 - Directed Readings in Religious Studies
• RELI 4500 - Religious Studies Seminar
• RELI 4699 - Special Topics in Religious Studies
• RELI 4800 - Religious Studies Seminar II
• SOCI 4341 - Sociology of Religion

General electives (0-3 s.h.)

• ANTH 2010 - Societies Around the World
• ANTH 3002 - Cultures of East Asia
• ANTH 3003 - Cultures of Africa
• ANTH 3004 - Cultures of the South Pacific
• ARTH 2920 - Art of the Middle Ages
• ARTH 3920 - Asian Art
• ARTH 4916 - Art of India
• CLAS 1500 - Classical Mythology
• ENGL 3460 - Topics in Literature and Mythology
• ENGL 4010 - Medieval Literature
• ENGL 4030 - Milton
• FORL 2600 - Literature in Translation: The Holocaust
• GRK 1001 - Ancient Greek Level I
• GRK 1002 - Ancient Greek Level II
• GRK 2003 - Ancient Greek Level III
• GRK 2004 - Ancient Greek Level IV
• HIST 3415 - The Middle Ages
• HIST 3610 - History of East Asia to 1600
- HIST 3660 - History of the Middle East, 600-1500
- HIST 3670 - History of the Middle East Since 1500
- HIST 5340 - The Ancient Near East
- HIST 5350 - The Renaissance in European History
- HIST 5450 - Tudor-Stuart England
- LATN 1001 - Latin Level I
- LATN 1002 - Latin Level II
- LATN 2003 - Latin Level III
- LATN 2004 - Latin Level IV
- MRST 5000 - Medieval and Renaissance Studies Seminar
- PHIL 2453 - Existentialism and Phenomenology
- PHIL 3321 - Medieval and Renaissance Philosophy
- PHIL 4250 - Metaphysics

VI. Thomas Harriot College of Arts and Sciences - Interdisciplinary Program in Russian Studies
Marked Catalog Copy

http://catalog.ecu.edu/preview_entity.php?catoid=8&ent_oid=672&p=2#courses
FORL 1551 - Introduction to Russia: Land of the Firebird

3

Introduction to the most significant achievements of Russian culture in their socio-historical context through study and discussion of canonical literary texts, films, fairy tales, and other cultural elements.

FORL 2220 - Sci-Fi: East and West

3

Comparative exploration of selected Russian and East European science fiction films and literary texts in English translation within the broader context of the international sci-fi genre. Interdisciplinary discussion of the problems addressed in science fiction texts: utopia/dystopia, progress, technology, reason, human nature, otherness, and ethics.

RUSS 3220 - Nineteenth Century Russian Literature in Translation

3 FC:HU

Taught in English. No knowledge of Russian required. RP: RUSS 2120 RUSI 2001 or consent of instructor. Literature of Russia during nineteenth century through study of selected readings in translation.

RUSS 3221 - Twentieth Century Russian Literature in Translation

3 FC:HU

Taught in English. No knowledge of Russian required. RP: RUSS 2120 RUSI 2001 or consent of instructor. Literature and culture of Russia and Soviet Union during twentieth century through reading and discussion of significant texts in translation.

RUSS 3230 - Russian and Soviet Film
3 FC:HU

Taught in English. No knowledge of Russian required. **RP:** RUSS 2120 RUSI 2001 or consent of instructor. Introduction to the major Russian and Soviet filmmakers.

**RUSS 3700 - Special Topics in Russian Studies**

3

May not count toward foundations curriculum requirement. May be repeated for a maximum of 6 s.h. with change of topic. Taught in English or Russian. **RP:** RUSS 2120 RUSI 2001 or RUSS 3220 or RUSS 3221 or consent of instructor. Selected topics relating to literature or culture of Russia (pre-Soviet, Soviet or post-Soviet). Topics may vary.

**RUSS 4700 - Special Topics in Russian Studies**

3

May be repeated for a maximum of 6 s.h. with change of topic. Taught in Russian or English. **P:** Consent of instructor. Selected topics relating to language, literature, culture, media, and film of the Russian-speaking world. Topics may vary.

http://catalog.ecu.edu/preview_entity.php?catoid=8&ent_oid=672&returnto=523

Courses

**Foreign Language**

- FORL 1060 - Global Understanding Through Literature
- FORL 1551 - Introduction to Russia: Land of the Firebird
- FORL 1662 - Introduction to Hispanic Studies
- **FORL 2220 - Sci-Fi: East and West**
- FORL 2520 - French Cinema Classics
- FORL 2600 - Literature in Translation: The Holocaust
- FORL 2620 - French Literature in Translation
- FORL 2622 - Francophone Literature of the Americas in Translation
- FORL 2624 - Francophone Literature of Africa in Translation
- FORL 2660 - Spanish Literature in Translation
- FORL 2661 - Latin American Literature in Translation
- FORL 2665 - Don Quixote
- FORL 2666 - Latino Texts
- FORL 2680 - German Literature in Translation
Russian Studies Minor

_Elena Konstantinovna Murenina, Director, 313 Austin 3303 Bate Building_

The Russian studies minor is an interdisciplinary program offered through the Thomas Harriot College of Arts and Sciences. The minor requires a minimum of 24 s.h. and is designed to provide students with a comprehensive knowledge of Russia from both historical and contemporary perspectives. Students pursuing the interdisciplinary Russian studies minor are strongly encouraged to study Russian language, as well as to take advantage of study abroad opportunities.

The interdisciplinary program includes an introductory course and senior level seminar in Russian studies. In addition, the Russian studies program offers lectures and seminars on Russian language, literature, culture, film, history, political science, and economics. Other appropriate courses in humanities, social science, and fine arts with Russian studies content may be counted towards the minor in consultation with the program director. It is recommended that BA students majors from other disciplines take Russian language to satisfy their foreign language requirements. No more than 6
s.h. of course work in the student’s major field of study will be accepted for credit toward the minor. The student’s minor program must be approved by the Russian studies minor director.

A concentration in Russian studies is available through the BA/BS in multidisciplinary studies. Interested students should contact the director of Russian studies.

1. Core - 6 s.h.

One of the following introductory courses is required - 3 s. h.

- RUSI 2001 - Introduction to Russian Studies: Humanities or
- RUSI 2002 - Introduction to Russian Studies: Social Science or
- RUSI 2003 - Introduction to Russian Studies: Fine Arts

The following capstone course is required - 3 s. h.

- RUSI 4000 - Senior Seminar in Russian Studies

2. Electives - 18 s.h.

Choose Select 9 12 s.h. from each of the at least two areas disciplines below in consultation with the Director. Note that at least one of the following RUSS courses (3 s.h.) is required for fulfillment of the social science elective course sequence.

**Humanities:**

- ECON 3365 - Russian Economic Transition
- FORL 2220 - Sci-Fi: East and West
- HIST 3551 - Medieval Russia, 862-1682
- HIST 3552 - Imperial Russia, 1682-1917
- HIST 3553 - Soviet Russia, 1917-1991
- POLS 3235 - East European Political Systems
- POLS 3236 - Russian Politics
- RUSS 1003 - Russian Level III
- RUSS 1004 - Russian Level IV
- RUSS 2120 - Introduction to Russian Culture
- RUSS 2700 - Special Topics in Russian Studies
- RUSS 3220 - Nineteenth Century Russian Literature in Translation
- RUSS 3221 - Twentieth Century Russian Literature in Translation
- RUSS 3230 - Russian and Soviet Film
- RUSS 3700 - Special Topics in Russian Studies
- RUSS 4700 - Special Topics in Russian Studies

**Social Science:**

- ECON 3365 - Russian Economic Transition
- HIST 3551 - Medieval Russia, 862-1682
- HIST 3552 - Imperial Russia, 1682-1917
- HIST 3553 - Soviet Russia, 1917-1991
- POLS 3235 - East European Political Systems
- POLS 3236 - Russian Politics

A maximum of two of the following courses can be counted towards the minor electives; however, the director must approve the course substitution. **~6 s.h.**

- RUSI 3011 - Field Study in Russia
- RUSI 3012 - Field Study in Russia
- RUSI 3500 - Selected Topics in Russian Studies
- RUSI 3931 - Directed Readings in Russian Studies
- RUSI 3932 - Directed Readings in Russian Studies
- RUSI 3933 - Directed Readings in Russian Studies

**Note:**

Other appropriate courses in humanities, social science, and fine arts may be substituted in consultation with RUSI program director.
CHEM 4103 - Seminar

1 S

P: Junior or senior standing; CHEM 2103. Discuss contemporary topics in chemistry, instruction on technical presentations, and submission of written and oral reports on approved topics. Requires attendance at selected departmental seminars.

CHEM 4517 - Research Problems in Chemistry

3 F, S, SS

May be repeated for credit. May count maximum of 6 s.h. toward CHEM major. P: CHEM 2750; CHEM 4515 or CHEM 4516; C and consent of instructor. Advanced problems in chemistry pursued under supervision of faculty member.

CHEM 4522 - Pharmaceutical Industry Skills Laboratory: Good Manufacturing Practices

2 3 S

2 lecture and 3 lab hours per week. P: Grade of B- (2.7) or higher in CHEM 2250, CHEM 2251; or consent of instructor. Regulations, laws, and skills involved in good laboratory and manufacturing practices (GLP) and good manufacturing practices (cGMP) in the pharmaceutical industry.

CHEM 4550 - Advanced Inorganic Chemistry

4 3 F

P: CHEM 3950; C: CHEM 3450 and CHEM 3451. Advanced treatment of atomic and molecular structure, molecular symmetry, group theory, MO theory, the solid state and ionic bonding, transition metal coordination and organometallic compounds, homogeneous catalysis, and acid-base, redox, and bioinorganic chemistry.
various topics in inorganic chemistry, including diagrammatic oxidation/reduction chemistry, electronic spectra, organometallic reactions, heterogeneous and homogeneous catalysis, and bioinorganic chemistry.

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Courses

Chemistry

- CHEM 0150 - Preparation for College Chemistry
- CHEM 1020 - General Descriptive Chemistry
- CHEM 1021 - General Descriptive Chemistry Laboratory
- CHEM 1120 - Introduction to Chemistry for the Allied Health Sciences
- CHEM 1121 - Basic General, Organic, and Biochemistry Laboratory I
- CHEM 1130 - Organic and Biochemistry for the Allied Health Sciences
- CHEM 1131 - Basic General, Organic, and Biochemistry Laboratory II
- CHEM 1150 - General Chemistry I
- CHEM 1151 - General Chemistry Laboratory I
- CHEM 1160 - General Chemistry II
- CHEM 1161 - General Chemistry Laboratory II
- CHEM 2103 - Introduction to Chemical Literature
- CHEM 2250 - Quantitative and Instrumental Analysis
- CHEM 2251 - Quantitative and Instrumental Analysis Laboratory
- CHEM 2301 - Teaching Laboratory Chemistry
- CHEM 2650 - Organic Chemistry for the Life Sciences
- CHEM 2651 - Organic Chemistry Lab for the Life Sciences
- CHEM 2750 - Organic Chemistry I
- CHEM 2753 - Organic Chemistry Laboratory I
- CHEM 2760 - Organic Chemistry II
- CHEM 2763 - Organic Chemistry Laboratory II
- CHEM 2770 - Biological Chemistry
- CHEM 2771 - Biological Chemistry Laboratory
- CHEM 3301 - Practicum in Teaching
- CHEM 3450 - Elementary Inorganic Chemistry
- CHEM 3451 - Elementary Inorganic Chemistry Laboratory
- CHEM 3501 - Special Topics in Chemistry
- CHEM 3502 - Special Topics in Chemistry
- CHEM 3503 - Special Topics in Chemistry
- CHEM 3850 - Introduction to Physical Chemistry
- CHEM 3851 - Introduction to Physical Chemistry Laboratory
- CHEM 3950 - Physical Chemistry and Laboratory I
- CHEM 3951 - Physical Chemistry and Laboratory I
- CHEM 3960 - Physical Chemistry and Laboratory II
- CHEM 3961 - Physical Chemistry and Laboratory II
- CHEM 4103 - Seminar
- CHEM 4350 - Instrumental Analysis
- CHEM 4351 - Instrumental Analysis Laboratory
- CHEM 4505 - Independent Study
- CHEM 4506 - Independent Study
Chemistry Banked Courses

- CHEM 1500 - Materials Chemistry I
- CHEM 1510 - Materials Chemistry II and Laboratory
- CHEM 1511 - Materials Chemistry II and Laboratory
- CHEM 2110 - Scientific Glassblowing
- CHEM 2111 - Applications of Molecular Modeling
- CHEM 4103 - Seminar

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Chemistry, BS

The BS degree in chemistry is the appropriate program for students considering advanced degree programs in chemistry, biochemistry, and other related fields or a professional career in chemistry. Graduates of this program meet certification requirements of the American Chemical Society. Students are strongly encouraged to pursue undergraduate research with a faculty member. Up to 6 s.h. of undergraduate research may be applied toward degree requirements. Information regarding undergraduate research may be obtained from the director of undergraduate studies. Students completing the BS degree are encouraged to consider some of the following courses as electives: COMM 2410 or COMM 2420; ITEC 3290 or ENGL 3820; MATH 2228, MATH 3256, MATH 4331; CHEM 4515, CHEM 4516, CHEM 4517; advanced 5000-level courses in chemistry; and BIOL 4880 or BIOL 4890. If a student successfully completes a higher-level cognate course after bypassing the lower-level prerequisite course(s), he/she may use free electives to substitute for the prerequisite hours. All students are required to take a departmentally administered assessment examination before graduation. Scores from this examination will not be included in the calculation of GPA for academic standing. The performance on this exam will be noted on the student’s transcript.

Minimum degree requirement is 120 s.h. of credit as follows:
1. Foundations curriculum requirements - 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum.)

- MATH 1065 - College Algebra
- PHYS 1251 - General Physics Laboratory
- PHYS 1261 - General Physics Laboratory
- PHYS 2350 - University Physics
- PHYS 2360 - University Physics

2. Core - 45 43 s.h.

- CHEM 1150 - General Chemistry I
- CHEM 1151 - General Chemistry Laboratory I
- CHEM 1160 - General Chemistry II
- CHEM 1161 - General Chemistry Laboratory II
- CHEM 2103 - Introduction to Chemical Literature
- CHEM 2250 - Quantitative and Instrumental Analysis
- CHEM 2251 - Quantitative and Instrumental Analysis Laboratory
- CHEM 2750 - Organic Chemistry I
- CHEM 2753 - Organic Chemistry Laboratory I
- CHEM 2760 - Organic Chemistry II
- CHEM 2763 - Organic Chemistry Laboratory II
- CHEM 2770 - Biological Chemistry
- CHEM 3450 - Elementary Inorganic Chemistry
- CHEM 3451 - Elementary Inorganic Chemistry Laboratory
- CHEM 3950 - Physical Chemistry and Laboratory I
- CHEM 3951 - Physical Chemistry and Laboratory I
- CHEM 3960 - Physical Chemistry and Laboratory II
- CHEM 3961 - Physical Chemistry and Laboratory II
- CHEM 4103 - Seminar
- CHEM 4350 - Instrumental Analysis
- CHEM 4351 - Instrumental Analysis Laboratory
- CHEM 4550 - Advanced Inorganic Chemistry

3. Electives labs - 2 3-5 s.h.
(Choose a minimum of 2-3 s.h. from the following.).

- BIOL 4891 - Principles of Biochemistry Laboratory
- CHEM 2301 - Teaching Laboratory Chemistry (May count only 1 s.h. toward the 2 s.h. lab requirement)
- CHEM 2771 - Biological Chemistry Laboratory
- CHEM 3301 - Practicum in Teaching
- CHEM 4515 - Research Problems in Chemistry
- CHEM 4516 - Research Problems in Chemistry
- BIOL 4890 - Principles of Biochemistry II
- CHEM 4517 - Research Problems in Chemistry
- CHEM 4522 - Pharmaceutical Industry Skills Laboratory: Good Manufacturing Practices
- CHEM 4550 - Advanced Inorganic Chemistry
- CHEM 5760 - Organic Structure Elucidation
- CHEM 5993 - Industrial Internship in Chemistry
- PHYS 3700 - Advanced Laboratory
- PHYS 3701 - Advanced Laboratory

(If the elective hours selected above includes CHEM 4517 or CHEM 5993, then lab elective requirements have been fulfilled. If the elective hours selected above includes CHEM 4522, then select at minimum 1 s.h. from the list below. If the elective hours selected above includes BIOL 4890 or CHEM 4550 or CHEM 5760, then select at minimum 2 s.h. from the list below.)

- BIOL 4891 - Principles of Biochemistry Laboratory
- CHEM 2301 - Teaching Laboratory Chemistry (May count only 1 s.h. toward the 2 s.h. lab requirement.)
- CHEM 2771 - Biological Chemistry Laboratory
- CHEM 3301 - Practicum in Teaching
- CHEM 4515 - Research Problems in Chemistry
- CHEM 4516 - Research Problems in Chemistry
- PHYS 3700 - Advanced Laboratory
- PHYS 3701 - Advanced Laboratory

4. Cognates - 15-17 s.h.

- MATH 1083 - Introduction to Functions or
- MATH 1085 - Pre-Calculus Mathematics

- MATH 2171 - Calculus I
- MATH 2172 - Calculus II
- MATH 2173 - Calculus III
5. Electives to complete requirements for graduation.

VIII. College of Engineering and Technology - Industrial and Systems Engineering Marked Catalog Copy

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Course Prefixes

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<tr>
<th>Prefix</th>
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<tr>
<td>IRHE</td>
<td>Interdisciplinary Rural Health Education</td>
</tr>
<tr>
<td>ISYS ISE</td>
<td>Industrial and Systems Engineering</td>
</tr>
<tr>
<td>ITAL</td>
<td>Italian</td>
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</tbody>
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Industrial and Systems Engineering

- **ISYS ISE 3010** - Principles and Methods of Industrial and Systems Engineering
- **ISYS ISE 3060** - Systems Optimization
- **ISYS ISE 4010** - Work Measurement and Human Factors
• ISYS ISE 4020 - Analysis of Production Systems and Facility Design
• ISYS ISE 4065 - Discrete Systems Modeling
• ISYS ISE 4203 - Integrated Systems Engineering
• ISYS ISE 4303 - Engineering Logistics
• ISYS ISE 4410 - Lean and Six-Sigma Quality Systems for Engineers

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Engineering, BS

Minimum degree requirement for the engineering program is 128 s.h. credit as follows:

1. Foundations curriculum requirements including those listed below - 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)

• BIOL 1050 - General Biology
• BIOL 1051 - General Biology Laboratory
• or
• BIOL 1100 - Principles of Biology I
• BIOL 1101 - Principles of Biology Laboratory I

• ECON 2113 - Principles of Microeconomics
• MATH 2151 - Engineering Calculus I

• PHIL 2275 - Professional Ethics or
• PHIL 2274 - Business Ethics

• PHYS 2350 - University Physics

2. Engineering Foundation - 39 s.h.

• ENGR 1000 - Introduction to Engineering
- ENGR 1012 - Engineering Graphics
- ENGR 1016 - Introduction to Engineering Design
- ENGR 2000 - Engineering Design and Project Management I
- ENGR 2022 - Statics
- ENGR 2050 - Computer Applications in Engineering
- ENGR 2070 - Materials and Processes
- ENGR 2450 - Dynamics
- ENGR 2514 - Circuit Analysis
- ENGR 3000 - Engineering Design and Project Management II
- ENGR 3024 - Mechanics of Materials
- ENGR 3050 - Sensors, Measurements, and Controls
- ENGR 3420 - Engineering Economics
- ENGR 3800 - Quality Control for Engineers
- ENGR 4010 - Senior Capstone Design Project I
- ENGR 4020 - Senior Capstone Design Project II

3. Cognates - 21 s.h.

- CHEM 1150 - General Chemistry I
- CHEM 1151 - General Chemistry Laboratory I
- MATH 2152 - Engineering Calculus II
- MATH 2153 - Engineering Calculus III
- MATH 2154 - Engineering Linear Algebra and Differential Equations I
- MATH 3307 - Mathematical Statistics I
- PHYS 2360 - University Physics

4. Concentrations

(Choose one)

Biomedical Engineering - 26 s.h.

- BIME 2080 - Foundations of Biomedical Engineering
- BIME 4030 - Biomechanics and Materials
- BIME 4040 - Physiological Systems and Modeling for Engineering I
- BIME 4050 - Physiological Systems and Modeling for Engineering II
- BIME 4200 - Biomedical Instrumentation
- ENGR 3012 - Thermal and Fluid Systems
- Technical electives, 6 s.h. as approved by the academic advisor.

Bioprocess Engineering - 26 s.h.
• BIOE 3016 - Engineering Applications in Microbial Systems
• BIOE 3250 - Bioprocess Engineering Systems
• BIOE 4006 - Bioprocess Engineering Validation and Quality
• BIOE 4010 - Bioprocess Separation Engineering
• BIOE 4020 - Bioprocess Plant Design, Simulation and Analysis
• CHEM 1160 - General Chemistry II
• CHEM 1161 - General Chemistry Laboratory II
• CHEM 2650 - Organic Chemistry for the Life Sciences
• CHEM 2651 - Organic Chemistry Lab for the Life Sciences
• ENGR 3012 - Thermal and Fluid Systems

**Electrical Engineering - 26 s.h.**

• EENG 2410 - Digital Electronics
• EENG 3020 - Signals and Systems
• EENG 3040 - Microprocessors
• EENG 3530 - Electronics
• EENG 3750 - Electric Power Systems
• EENG 4510 - Control System Design
• ENGR 3012 - Thermal and Fluid Systems
• Technical electives, 3 s.h. as approved by the academic advisor.

**Environmental Engineering - 26 s.h.**

• CHEM 1160 - General Chemistry II
• CHEM 1161 - General Chemistry Laboratory II
• ENGR 3012 - Thermal and Fluid Systems
• ENVE 3103 - Water Quality
• ENVE 3203 - Water and Wastewater Treatment
• ENVE 3303 - Air Quality Engineering
• ENVE 4103 - Engineering Surface Water Hydrology
• ENVE 4203 - Engineering Groundwater Hydrology
• Technical electives, 3 s.h. as approved by the academic advisor.

**Industrial and Systems Engineering - 26 s.h.**

• ISYS ISE 3010 - Principles and Methods of Industrial and Systems Engineering
• ISYS ISE 3060 - Systems Optimization
• ISYS ISE 4010 - Work Measurement and Human Factors
• ISYS ISE 4020 - Analysis of Production Systems and Facility Design
• ISYS ISE 4065 - Discrete Systems Modeling
• ENGR 3012 - Thermal and Fluid Systems
• Technical electives, 7 s.h. as approved by the academic advisor.

Mechanical Engineering - 26 s.h.

• MENG 3624 - Solid Mechanics
• MENG 3070 - Thermodynamics I
• MENG 4018 - Thermodynamics II
• MENG 4150 - Fluid Mechanics
• MENG 4260 - Heat and Mass Transfer
• MENG 4650 - Machine Design
• Technical electives, 7 s.h. as approved by the academic advisor.