The effective date for new programs subject to Statewide Academic Program review is implemented in accordance with the Statewide Academic Program Review calendar.
MICHIGAN STATE UNIVERSITY
University Committee on Curriculum

November 10, 2015

TO: Faculty Senate

This report is prepared and distributed for the following purposes:

1. To report new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses.
2. To notify the initiating colleges, schools, and departments of approval by the University Committee on Curriculum of their requests for new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses. Any items not approved by the Faculty Senate will be reported to the appropriate college and department or school.
3. To provide information to members of the faculty in each department about academic programs and courses in all colleges, departments, and schools of the University.

Reports of the University Committee on Curriculum to the Faculty Senate are organized as follows:

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES:

Organized by colleges in alphabetical order. For a given college, academic units are organized in alphabetical order. For a given academic unit, degrees, majors, and specializations are organized in alphabetical order.

PART II - NEW COURSES:¹

Organized by academic units in alphabetical order; All-University courses appear last. For a given academic unit, courses are organized according to the names associated with course subject codes, in alphabetical order. Courses with the same subject code are in numerical order.

PART III - COURSE CHANGES:¹

Organized by academic units in alphabetical order; All-University courses appear last. For a given academic unit, courses are organized according to the names associated with course subject codes, in alphabetical order. Courses with the same subject code are in numerical order.

Not all of the above categories, and not all of the colleges and academic units, will necessarily appear in any given Senate Report.

¹One or more of the abbreviations that follow may be included in a course entry:
P: = Prerequisite monitored in SIS
C: = Corequisite
R: = Restriction
RB: = Recommended background
SA: = Semester Alias
PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

RESIDENTIAL COLLEGE IN THE ARTS AND HUMANITIES

1. Change the requirements for the Bachelor of Arts degree in the Arts and Humanities in the Residential College in the Arts and Humanities. The University Committee on Undergraduate Education (UCUE) approved this request at its October 8, 2015 meeting.

   a. Under the heading Requirements for the Bachelor of Arts Degree in the Residential College in the Arts and Humanities make the following changes:

   (1) In item 1., change paragraph two to the following:

   The completion of RCAH 111 referenced in item 2. a. below satisfies the University’s Tier I writing requirement.

   (2) In item 2. a., make the following changes:

   (a) Change the total credits from ‘26’ to ‘28’.

   (b) Delete the following courses:

   RCAH 111 Writing in Transcultural Contexts  3
   RCAH 112 Writing, Research and Technologies  3

   Add the following courses:

   RCAH 111 Writing in Transcultural Contexts  4
   RCAH 112 Writing, Research and Technologies  4

   (3) In item 2. b. change the credits of RCAH 292C from ‘1 to 4’ to ‘2 to 4’.

   (4) In item 2. c. change the credits of RCAH 292C from ‘1 to 4’ to ‘2 to 4’.

   (5) In item 2. g. change the credits of RCAH 390 from ‘4’ to ‘6’.

   Effective Fall 2016.
ELI BROAD COLLEGE OF BUSINESS

1. Change the requirements for the Minor in Entrepreneurship and Innovation in the Eli Broad College of Business.

   a. Under the heading Minor in Entrepreneurship and Innovation replace the entire entry with the following:

      Students must maintain a 2.0 grade-point average in courses completed for the minor and complete 15 credits from the following:

      1. Complete both of the following courses (6 credits):
         - BUS 190 The Art of Starting 3
         - CAS 114 Creativity and Innovative Entrepreneurship 3

      2. Complete 9 credits from the following courses:
         - ACC 333 Taxation and Accounting for the Entrepreneur 3
         - AL 271 Introduction to Arts and Cultural Management 3
         - AL 465 Leadership and Innovation for Arts and Cultural Management 3
         - BUS 170 Business Model Development: The Hive Startup 1
         - BUS 230 The Entrepreneurial Mindset 3
         - BUS 231 Venture Launch 3
         - EGR 100 Introduction to Engineering Design 2
         - FI 444 Entrepreneurial Finance 3
         - GBL 467 Emerging Enterprise Law 3
         - HRT 404 Horticulture Management (W) 3
         - HRT 407 Horticulture Marketing 3
         - MGT 352 Entrepreneurship: New Venture Process 3
         - MGT 454 Technology Entrepreneurship 3
         - MI 301 Bringing Media to Market 3
         - MI 452 Media Strategy (W) 3
         - MI 462 Social Computing (W) 3
         - MI 472 Electronic Commerce (W) 3
         - MKT 355 Entrepreneurship: Strategic Marketing Planning and Launch 3
         - MKT 380 Entrepreneurship: Planning, Modeling and Adaptive Execution 3
         - MKT 410 Product Innovation and Management 3
         - MKT 420 New Product Design and Development 3
         - MKT 480 Entrepreneurship Capstone Experience 3
         - MKT 485 Entrepreneurship Practicum 1
         - MUS 101 Freshman Seminar: Practical Foundations for Success in Music 1
         - MUS 496 Your Music Business 1 or 2
         - STA 303 Design Thinking 3

      Effective Spring 2016.
2. Change the requirements for the **Minor in Information Technology** in the Eli Broad College of Business.

   a. Under the heading **Requirements for the Minor in Information Technology** make the following changes:

      (1) In item 1. delete the following course:

      TC 201 Introduction to Media and Information Technology 3

      Add the following course:

      MI 201 Introduction to Media and Information Technologies and Industries 3

      (2) In item 2. delete the following courses:

      TC 331 Introduction to Interactive Media Design 3
      TC 349 Client Side Web Development 3
      TC 361 Information and Communication Technology Management 3

      Add the following courses:

      ACC 321 Accounting Information Systems 3
      ITM 481 Introduction to Business Analytics 3
      MI 331 Introduction to Interactive Media Development 3
      MI 349 Web Design and Development 3
      MI 361 Information and Communication Technology Management 3

      Effective Fall 2016.

3. Establish a **Minor in Sports Business Management** in the Department of Management. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its April 2, 2015 meeting.

   a. **Background Information:**

   The Minor in Sports Business Management creates an interdisciplinary program in response to interest from regional and national sports business organizations. The Broad College is uniquely positioned to be a leader in sports business because of its proximity to premier sports organizations and venues. MSU Athletics was named second in the nation in 2014. The State of Michigan has every major sport represented including NASCAR, minor league baseball and hockey. Hands-on experiences for students with Spartan Stadium, Van Andel Arena, Michigan International Speedway, and others are within reach. Visits to Chicago and Indianapolis to Big Ten and NCAA headquarters will provide national exposure regionally. Students will have the potential to network with industry leaders and receive professional experiences. Reviews of eighteen Michigan, Big Ten, and other Universities located regionally find only ten institutions offering sports management or sports administration programs at the undergraduate level and graduate level. None of these programs are housed in a business college or school. Interviews with prospective employers find universal agreement that preferred candidates for related positions have a strong business background. Many leagues and organizations have a strong need for individuals with business experience.

   b. **Academic Programs Catalog Text:**

   The Minor in Sports Business Management, which is administered by the Department of Management, provides students the academic foundation and practical experience to pursue careers in intercollegiate and professional sports and the sports business industry. The minor is intended for students who wish to enhance their marketability for highly competitive careers in areas related to sports business management including sports associations and leagues, intercollegiate and professional sports organizations and teams, sports entertainment and media services, and firms that primarily supply the sports and entertainment industry. Students will apply
their knowledge of business to the industries of sports through course work and hands-on experience in supervised fieldwork and internships.

The minor is available as an elective to students who are enrolled in the Bachelor of Science Degree in Management or the Bachelor of Science Degree in Marketing at Michigan State University in the Eli Broad College of Business. With the approval of the department and college that administers the student’s degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor’s degree. Students who plan to complete the requirements for the minor should consult an undergraduate advisor in the Department of Management.

Requirements for the Minor in Sports Business Management

<table>
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<tr>
<th>CREDITS</th>
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<tr>
<td>Students must complete a minimum of 15 credits from the following:</td>
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1. All of the following courses (9 credits):
   - MGT 460 Capstone for Management Majors (W) 3
   - MGT 479 Sports Business Management 3
   - MGT 493 Fieldwork in Sports Business 3

2. Complete at least 6 credits from the following:
   - ADV 420 New Media Driver’s License 3
   - ADV 431 Monitoring and Measuring Social Media of Brands 3
   - BUS 491 Special Topics in Business 3
   - EC 370 Economics of Sports 3
   - HST 324 History of Sport in America 3
   - HST 329 College Sports in the United States 3
   - ISS 328 The Social Science of Sports (I) 4
   - KIN 454 Facility Planning and Construction 3
   - KIN 456 Ethical Issues in Athletics 2
   - MGT 411 Organizational Staffing 3
   - MGT 412 Compensation and Reward Systems 3
   - MGT 414 Diversity in the Workplace 3
   - MGT 418 Labor-Management Relations 3
   - MI 101 Understanding Media in the Information Age 3
   - MI 300 Media Policy and Economics 3
   - MKT 302 Consumer and Organizational Buyer Behavior 3
   - MKT 313 Personal selling and Buying Process 3

Management majors must fulfill this requirement with at least two courses outside of management.

Effective Spring 2016.

COLLEGE OF COMMUNICATION ARTS AND SCIENCES

1. Change the requirements for the Bachelor of Arts degree in Advertising in the Department of Advertising and Public Relations.
   a. Under the heading Requirements for the Bachelor of Arts Degree in Advertising make the following changes:
      (1) Under the Management and Media concentration add the following course:

         MGT 325 Management Skills and Processes 3

Effective Spring 2016.
COLLEGE OF ENGINEERING

1. Change the requirements in the Bachelor of Science degree in Civil Engineering in the Department of Civil and Environmental Engineering.

a. Under the heading Requirements for the Bachelor of Science Degree in Civil Engineering make the following changes:

   (1) In item 3. a. delete the following courses:

   CE 271 Introduction to Civil and Environmental Engineering  4
   CE 272 Civil and Environmental Engineering Analysis  3

   Add the following courses:

   CE 273 Civil and Environmental Engineering Measurements  2
   CE 274 Graphics for Civil and Environmental Engineers  1
   CE 371 Sustainable Civil Environmental Engineering Systems  3
   CE 372 Risk Analysis in Civil and Environmental Engineering  2

   (2) In item 3. a. change the total credits from ‘42’ to ‘43’.

   (3) Replace item 3. d. with the following:

   Technical electives. Complete 18 credits of electives from the list below. At least four courses, totaling a minimum of 12 credits, must be from at least four different areas (environmental, geotechnical, pavements, structures, transportation, and water resources). Additional credits to meet the 18 credit requirement may be taken from the list of courses below, which includes courses in construction management.

   Environmental
   ENE 481 Environmental Chemistry: Equilibrium Concepts  3
   ENE 483 Water and Wastewater Engineering  3
   ENE 487 Microbiology for Environmental Science and Engineering  3
   ENE 489 Air Pollution: Science and Engineering  3

   Geotechnical
   CE 418 Geotechnical Engineering  3

   Pavements
   CE 431 Pavement Design and Analysis I  3
   CE 831 Advanced Concrete Pavement Analysis and Design  3
   CE 832 Advanced Asphalt Pavement Analysis and Design  3

   Structures
   CE 405 Design of Steel Structures  3
   CE 406 Design of Concrete Structures  3
   CE 805 Advanced Design of Steel Structures  3
   CE 806 Advanced Structural Concrete Design  3

   Transportation
   CE 444 Principles of Traffic Engineering  3
   CE 448 Transportation Planning  3
   CE 449 Highway Design  3

   Water Resources
   ENE 421 Engineering Hydrology  3
   ENE 422 Applied Hydraulics  3
   ENE 822 Groundwater Modeling  3

   The additional six credits may include courses from the construction management program courses below or from the above list.
   CE 471 Construction Engineering-Equipment, Methods and Planning  3
   CMP 311 Construction Project Scheduling  3
   CMP 415 Cost Estimating and Analysis  3
   CMP 423 Construction Project Management  3

Effective Fall 2016.
2. Change the requirements in the Bachelor of Science degree in Environmental Engineering in the Department of Civil and Environmental Engineering.

   a. Under the heading Requirements for the Bachelor of Science Degree in Environmental Engineering make the following changes:

      (1) In item 3. a. delete the following courses:

         | Course Code | Course Name                              | Credits |
         |--------------|------------------------------------------|---------|
         | CE 271       | Introduction to Civil and Environmental | 4       |
         | CE 272       | Civil and Environmental Engineering      | 3       |

      Add the following courses:

         | Course Code | Course Name                              | Credits |
         |--------------|------------------------------------------|---------|
         | CE 273       | Civil and Environmental Engineering      | 2       |
         | CE 274       | Graphics for Civil and Environmental     | 1       |
         | CE 371       | Sustainable Civil Environmental Systems  | 3       |
         | CE 372       | Risk Analysis in Civil and Environmental | 2       |
         | ENE 422      | Applied Hydraulics                       | 3       |

      (2) In item 3. a. change the total credits from ‘47’ to ‘51’.

      (3) Replace item 3. e. with the following:

      **Technical electives.** Complete at least three courses for a minimum of 9 credits of electives from the list below or by approval of the department. Students may substitute a 3-credit experiential education experience for one of the three courses. The experience is obtained in a minimum of three out-of-classroom experiences through engineering cooperative education. Students must contact the department for approval.

         | Course Code | Course Name                              | Credits |
         |--------------|------------------------------------------|---------|
         | ANS 427      | Environmental Toxicology and Society     | 3       |
         | BE 469       | Sustainable Bioenergy Systems            | 3       |
         | BE 482       | Diffuse-Source Pollution Engineering     | 3       |
         | CSS 455      | Environmental Pollutants in Soil and Water | 3     |
         | CSUS 320     | Environmental Planning and Management    | 3       |
         | CSUS 425     | Environmental Impact Assessment          | 3       |
         | FW 414       | Aquatic Ecosystem Management             | 3       |
         | FW 417       | Wetland Ecology and Management           | 3       |
         | FW 420       | Stream Ecology                           | 3       |
         | FW 443       | Restoration Ecology                      | 3       |
         | FW 472       | Limnology                                | 3       |
         | GLG 411      | Hydrogeology                             | 3       |
         | GLG 412      | Glacial Geology and the Record of Climate Change | 3     |
         | GLG 421      | Environmental Geochemistry               | 4       |
         | IBIO 303     | Oceanography                             | 4       |
         | IBIO 353     | Marine Biology (W)                       | 4       |
         | IBIO 355     | Ecology                                  | 3       |
         | IBIO 446     | Environmental Issues and Public Policy   | 3       |
         | ISS 310      | People and Environment (I)               | 4       |

Effective Fall 2016.
COLLEGE OF NATURAL SCIENCE

1. Change the requirements for the Bachelor of Science degree in Biomedical Laboratory Science in the Biomedical Laboratory Diagnostics Program.
   a. Under the heading Requirements for the Bachelor of Science Degree in Biomedical Laboratory Science make the following changes:
      (1) In item 3. a. change the total credits from ‘43 to 48’ to ‘43 to 46’.
      (2) In item 3. a. (5) change the total credits from ‘4 or 6’ to ‘4’.
      (3) In item 3. a. (5) (c) change the credits of PSL 431 and 432 from ‘3’ to ‘4’.
      (4) In item 3. b. change the total credits from ‘31’ to ‘30’. and delete the following course:
         BLD 435 Transfusion and Transplantation Medicine 3
         Add the following course:
         BLD 435 Transfusion Medicine 2

      Effective Fall 2016.

2. Change the requirements for the Bachelor of Science degree in Clinical Laboratory Science in the Biomedical Laboratory Diagnostics Program.
   a. Under the heading Requirements for the Bachelor of Science Degree in Clinical Laboratory Science make the following changes:
      (1) In item 4. a. change the total credits from ‘48 to 50’ to ‘48 to 51’.
      (2) In item 4. a. (5) change the total credits from ‘4 or 6’ to ‘4’.
      (3) In item 4. a. (5) (c) change the credits of PSL 431 and 432 from ‘3’ to ‘4’.
      (4) In item 4. b. change the total credits from ‘53’ to ‘52’. and delete the following course:
         BLD 435 Transfusion and Transplantation Medicine 3
         Add the following course:
         BLD 435 Transfusion Medicine 2

      Effective Fall 2016.
Establish a Bachelor of Science degree in Economic Geography in the Department of Geography. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its September 24, 2015 meeting.

a. **Background Information:**

The department is proposing a new Bachelor of Science degree in Economic Geography in response to Academic Program Review and changing opportunities for bachelor’s degree recipients in employment and continuing education. The proposed new degree aligns with the department’s undergraduate degree program and faculty research expertise and will replace the current Bachelor of Science degree in Geography which is in moratorium and will be phased out and discontinued.

The Department of Geography currently offers three undergraduate degrees: a Bachelor of Science in Environmental Geography, a Bachelor of Science in Geographic Information Science, and a Bachelor of Arts in Human Geography. The degree in Environmental Geography is for students interested in jobs within the environmental field such as with consulting firms, the Forest Service, Department of Environmental Quality, the Department of Agriculture or as soil analysts. Students enrolled in the Geographic Information Science major are interested in the specific application of digital technology, for example, to environmental firms, state government, the transportation sector, or real estate. Students pursuing Human Geography can train for jobs in both large and small private sector companies, all levels of government, and/or nonprofits and non-government organizations. Human geographers work as demographic analysts, sustainability directors, circulation managers, historic preservation specialists, policy analysts and developers. They can work in fields such as operations, consulting, social justice, tourism/parks and recreation, and others.

The Bachelor of Science in Economic Geography is designed to attract students to the science of Economic Geography and its applications to our communities at various scales. The determination and planning of locations of commercial, industrial, medical and other service facilities, the structure and functioning of our cities, as well as the transportation systems that connect them, all involve Economic Geography. These analyses are conducted at various scales from the very local to the near global. To properly address such issues, students need to be trained with significant quantitative and scientific skills that are well beyond those currently required for the Bachelor of Arts degree in Human Geography. For example, locational optimization is premised on concepts involving applications of calculus instead of only entry level statistics. As a result, Economic Geography should not be viewed as positioned along a continuum ranging from the Bachelor of Science in Environmental Geography (the ‘natural science’ end) to the Bachelor of Arts in Human Geography (the ‘social science’ end). Instead, the proposed Bachelor of Science degree in Economic Geography should be considered as having a different ‘node’ apart from them both, as is the case with the Bachelor of Science degree in Geographic Information Science. This node would intersect with the general field of Economics much more directly than the degrees in Human or Environmental Geography.

Although the concept of a distinct degree in Economic Geography may seem novel to many in the United States, the field is recognized in international contexts such as China and the United Kingdom. There are also dozens of professions utilizing the content in business, government and trade. Annually, many highly capable prospective students with interests in this field are not admitted to the College of Business, and the College of Social Science’s Department of Economics due to capacity issues. Therefore, this degree, with importance that many of them would recognize, would allow an opportunity for them to remain at Michigan State University while majoring in an appropriate degree program that would make them eminently ‘employable’ upon graduation.
b. **Academic Programs Catalog Text:**

The Bachelor of Science degree in Economic Geography provides a comprehensive program for students interested in the roles of space, place, location, scale, key agents, and forces in the economic sphere. The program prepares students to succeed in commercial, non-government organizations, nonprofits, or governmental realms as well as the pursuit of graduate degrees, with emphases on spatial planning and control of issues ranging from transport and markets to poverty and inequality. Students attain substantial quantitative and technical skills as well as practical skills for solving problems drawn from local, regional, and global settings.

**Requirements for the Bachelor of Science Degree in Economic Geography**

1. The University requirements for bachelor’s degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Economic Geography.

   The University’s Tier II writing requirement for the Economic Geography major is met by completing Geography 480. That course is referenced in item 3. below.

2. The requirements of the College of Social Science for the Bachelor of Science degree.

3. The following courses with a minimum 2.0 grade-point average (42 or 43 credits):

   a. One of the following courses (3 or 4 credits):
      - LB 118 Calculus I     4
      - MTH 124 Survey of Calculus I    3
      - MTH 132 Calculus I     3
      - MTH 152H Honors Calculus I     3
   
   b. The following course (3 credits):
      - EC 201 Introduction to Microeconomics     3
   
   c. Both of the following courses (6 credits):
      - GEO 113 Introduction to Economic Geography  3
      - GEO 151 Introduction to Human Geography     3
   
   d. Both of the following courses (6 credits):
      - GEO 221 Introduction to Geographic Information  3
      - GEO 363 Introduction to Quantitative Methods for Geographers  3
   
   e. Three of the following courses (9 credits):
      - GEO 413 Urban Geography  3
      - GEO 414 Geography of Transportation  3
      - GEO 415 Location Theory and Land Use Analysis     3
      - GEO 418 The Ghetto  3
      - GEO 453 Metropolitan Environments: Urban Forms and Land Uses  3
      - GEO 459 Tourism in Regional Development  3
   
   f. The following course (3 credits):
      - GEO 480 Senior Seminar     3
   
   g. Six additional credits in Geography courses at the 300-level and above.
   
   h. Two courses outside the Department of Geography (6 credits):
      - CE 341 Transportation Engineering     3
      - CE 448 Transportation Planning  3
      - CSUS 320 Environmental Planning and Management     3
      - CSUS 447 Community Economic Development  3
      - CSUS 474 Advanced Topics in Tourism Management  3
      - EC 301 Intermediate Microeconomics  3
      - EC 306 Comparative Economic Systems  3
      - EC 310 Economics of Developing Countries  3
      - EC 340 Survey of International Economics  3
      - EEP 320 Environmental Economics  3
      - UP 314 Methods for Investigation of Urban Systems     4
      - UP 353 Land Use Planning  4
In addition to the requirements for the major, students may elect to complete a cognate in business. The requirements for the cognate are met by completing four of the following courses (12 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 230</td>
<td>Survey of Accounting Concepts</td>
<td>3</td>
</tr>
<tr>
<td>FI 320</td>
<td>Introduction to Finance</td>
<td>3</td>
</tr>
<tr>
<td>GBL 323</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>MGT 325</td>
<td>Management Skills and Processes</td>
<td>3</td>
</tr>
<tr>
<td>MKT 327</td>
<td>Introduction to Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Effective Fall 2016.
PART II - NEW COURSES

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

ITM 481  
Introduction to Business Analytics  
Fall of every year. Spring of every year. 3(3-0) P: CSE 201 or CSE 231 or MKT 317  
RB: Other courses in the IT minor or statistics  
R: Open to undergraduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Information Technology Minor or approval of department.  
Effective Fall 2016

BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM

BLD 439  
Histocompatibility and Immunogenetics  
Spring of every year. 1(1-0) P: BLD 434 or MMG 451  
The theory and principles of histocompatibility and immunogenetics as applied to transplant medicine.  
Effective Spring 2017

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

CE 273  
Civil and Environmental Engineering Measurements  
Fall of every year. Spring of every year. 2(1-3) P: ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (EGR 102 or concurrently)  
Measurements, surveying and error analysis with applications to civil and environmental engineering problems  
Effective Spring 2016

CE 274  
Graphics for Civil and Environmental Engineers  
Fall of every year. Spring of every year. 1(1-3) P: ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (EGR 100 or concurrently)  
Basic operations in CAD software with applications in civil and environmental engineering  
Effective Spring 2016

CE 371  
Sustainable Civil and Environmental Engineering Systems  
Fall of every year. Spring of every year. 3(3-0) P: ((MTH 234 or concurrently) or (LB 220 or concurrently) or (MTH 254H or concurrently) or (EGR 102 and ENE 280)) R: Open to juniors or seniors in the Civil Engineering Major or in the Environmental Engineering Major.  
Principles and tools of sustainable design and engineering economics in Civil and Environmental Engineering.  
Effective Spring 2016

CE 372  
Risk Analysis in Civil and Environmental Engineering  
Fall of every year. Spring of every year. 2(2-0) P: ((MTH 234 or concurrently) or (LB 220 or concurrently) or (MTH 254H or concurrently)) and EGR 102 R: Open to juniors in the Civil Engineering Major or in the Environmental Engineering Major and open to seniors in the Civil Engineering Major or in the Environmental Engineering Major.  
Applications of probability, statistics, uncertainty and risk analysis to topics in civil and environmental engineering, characterization of system safety, and comparison tests for engineering quality control and environmental analyses.  
Effective Fall 2016
CE 407  Materials Engineering: Properties, Selection and Processing
Spring of every year. 3(3-0) P: CE 221 and ME 222 RB: MSE 250 R: Open to juniors or seniors in the Chemical Engineering Major or in the Mechanical Engineering Major or in the Civil Engineering Major.
General families of materials, materials design process for civil and environmental engineering problems, structural materials properties, processing methods and environment, microstructure of materials, structural materials selection by utilizing bubble charts.
Effective Fall 2016

DEPARTMENT OF MATHEMATICS

MTH 452  Numerical Analysis II
Spring of every year. 3(3-0) P: MTH 451
Effective Spring 2016

SCHOOL OF PLANNING, DESIGN AND CONSTRUCTION

LA 449  Landscape Architecture Design Studio
Fall of every year. 3(0-6) P: LA 448
REINSTATEMENT Self-selected evidence based design studio project.
Effective Fall 2015

DEPARTMENT OF WRITING, RHETORIC AND AMERICAN CULTURES

WRA 101  Writing as Inquiry
Fall of every year. Spring of every year. Summer of every year. 4(4-0) P: (WRA 1004) or designated score on English Placement test Not open to students with credit in LB 133 or MC 111 or MC 112 or RCAH 111 or WRA 195H.
The study and practice of invention, arrangement, revision, style, and delivery to help students make successful transitions to writing, reading, and researching in higher education.
Effective Fall 2016
PART III – COURSE CHANGES

DEPARTMENT OF ART, ART HISTORY, AND DESIGN

HA 855  Seminar in American Art
Spring of odd years. 3(3-0) Interdepartmental with American Studies. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. Intensive investigation of a topic in the history of American art. DELETE COURSE Effective Fall 2015

STA 303  Design Thinking
Fall of every year. Spring of every year. 3(0-6) RB: Understanding of how to use a personal computer, web browsers, and mobile devices R: Approval of department. R: Open to students in the Experience Architecture Major or in the Graphic Design Minor or in the Bachelor of Fine Arts in Studio Art or in the Studio Art Major or in the Entrepreneurship and Innovation Minor or approval of department. Core concepts and methods practiced throughout the design. Tools necessary to define challenges and build effective solutions, as an independent or collaborative contributor to human-centered problems. Effective Fall 2013 Effective Spring 2016

RESIDENTIAL COLLEGE IN THE ARTS AND HUMANITIES

RCAH 111  Writing in Transcultural Contexts
Fall of every year. 3(3-0) 4(4-0) R: Open to undergraduate students in the Residential College in the Arts and Humanities. C: RCAH 202 concurrently. Focused instruction in writing. Multiple forms and genres of composition. Other forms of composing such as music, painting, sculpture, and dance. Diverse texts and communities from the local to the global. Effective Spring 2015 Effective Fall 2016

RCAH 112  Writing, Research and Technologies
Spring of every year. 3(3-0) 4(4-0) P: RCAH 111 P: (RCAH 111) or Completion of Tier I Writing Requirement R: Open to undergraduate students in the Residential College in the Arts and Humanities. Arguments and analysis in oral, written, and digital formats. Methods of research, inquiry, and presentation. Research design and immersion activities. Writing for public engagement. Effective Spring 2015 Effective Fall 2016

RCAH 281  Career Strategies
Fall of every year. 2(2-0) P: RCAH 112 and RCAH 202 R: Open to undergraduate students in the Residential College in the Arts and Humanities. Identify, explore, and prepare for career opportunities in the interdisciplinary arts and humanities. Topics include self-assessment, career strategies, internship, and job search skills. Request the use of the Pass-No Grade (P-N) system. Effective Spring 2015 Effective Fall 2016

RCAH 390  Immersions in Language and Culture
Fall of every year. Spring of every year. 2 to 4 credits. 3(3-0) A student may earn a maximum of 4 credits in all enrollments for this course. A student may earn a maximum of 6 credits in all enrollments for this course. P: RCAH 112 and RCAH 192 and (RCAH 203 or concurrently) R: Open to undergraduate students in the Residential College in the Arts and Humanities. Preparation for living in other cultures, using a language other than English for daily communications. Synthesis of language immersion experience. Effective Spring 2015 Effective Fall 2016
COLLEGE OF ARTS AND LETTERS

AL 192  Arts and Humanities First-Year Seminar
Fall of every year. Spring of every year. 4(4-0) P: (WRA 1004) or designated score on English Placement test
Theme-based exploration of connections across arts and humanities disciplines.
Development of skills necessary for successful study of arts and humanities. Significant writing component including drafting, revising, and editing compositions to develop skills in narration, persuasion, analysis, and documentation.
SA: AL 192H
DELETE COURSE
Effective Summer 2016

AL 192H  Arts and Humanities First-Year Seminar
Fall of every year. Spring of every year. 4(4-0) R: Open to freshmen or approval of college.
Theme-based exploration of connections across arts and humanities disciplines.
Development of skills necessary for successful study of arts and humanities. Significant writing component including drafting, revising, and editing compositions to develop skills in narration, persuasion, analysis, and documentation.
DELETE COURSE
Effective Summer 2016

AL 465  Leadership and Innovation for Arts and Cultural Management
Fall of every year. Spring of every year. 3(3-0) P: AL 271 or approval of college R: Open to graduate students in the College of Arts and Letters or approval of college.
R: Open to graduate students in the College of Arts and Letters and open to undergraduate students in the Entrepreneurship and Innovation Minor or approval of college.
Development of leadership abilities, creative, and innovative planning in arts and cultural management through readings and practical application.
Effective Summer 2014 Effective Spring 2016

AMS 849  Comparative Ethnic Studies
Fall of every year. Spring of every year. 3(3-0) Interdepartmental with Arts and Letters. RB: AMS 881 R: Open to graduate students in the College of Arts and Letters and open to graduate students in the College of Social Science.
Comparative study of cultural production as it relates to history and politics of race and ethnicity in the United States.
DELETE COURSE
Effective Fall 2015

AMS 890  Independent Study
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of college.
Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.
DELETE COURSE
Effective Fall 2015

AMS 891  Special Topics in American Studies
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course.
Special topics supplementing regular course offerings proposed by faculty for graduate students on a group study basis.
DELETE COURSE
Effective Fall 2015

AMS 899  Master's Thesis Research
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of college.
Directed research leading to a master's thesis in partial fulfillment of Plan A master's degree requirements.
Request the use of the Pass-No Grade (P-N) system.
DELETE COURSE
Effective Fall 2015
BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM

BLD 435 Transfusion and Transplantation Medicine
Transfusion Medicine
Spring of every year. 3(2-0) 2(2-0) P: BLD 434 or MMG 451
Principles and practice of transfusion medicine including blood typing. Principles and practices of transplantation medicine. Transplantation immunology, organ procurement, and rejection detection. Principles and practice of transfusion medicine including blood typing. Offered first ten weeks of semester.
SA: MT 435, MT 432
Effective Fall 2014 Effective Spring 2017

THE ELI BROAD COLLEGE OF BUSINESS

MKT 230 The Entrepreneurial Mindset
BUS 230 The Entrepreneurial Mindset
Summer of every year. 3(2-0) P: BUS 190 R: Not open to students in the Entrepreneurship Specialization. R: Not open to students in the Entrepreneurship and Innovation Minor.
SA: MKT 230
Effective Fall 2015 Effective Spring 2016

MKT 231 Venture Launch
BUS 231 Venture Launch
Fall of every year. Summer of every year. 3(2-0) P: MKT 230
Creating a minimum viable product. Market testing. Building a basic business model. Developing and executing a launch plan.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
SA: MKT 231
Effective Fall 2015 Effective Spring 2016

BUS 250 Business Communications: Oral and Written Skills
Fall of every year. Summer of every year. 3(3-0) P: Completion of Tier I Writing Requirement R: Open to undergraduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.
Communication skills including use of digital media, delivery mechanics, persuasive speaking, and preparation of executive briefs, memos, email messages.
Effective Fall 2014 Effective Fall 2016

MBA 845 Integrative Action Projects
Fall of every year. Spring of every year. 1 to 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to MBA students.
Week-long intensive action-based learning experience in which students apply business theories and concepts to real business issues. Multi-day intensive action-based learning experience in which students apply business theories and concepts to real business issues.
Request the use of the Pass-No Grade (P-N) system.
Effective Fall 2013 Effective Fall 2016
DEPARTMENT OF CHEMISTRY

CEM 483  Quantum Chemistry
Fall of every year. 3(4-0) P: (MTH 235 or MTH 255H or MTH 347H or MTH 340) and (PHY 184 or 
PHY 294H or LB 274 or PHY 184B) and (CEM 142 or CEM 152 or CEM 181H or LB 172) P: (MTH 
235 or MTH 347H or MTH 340) and (PHY 184 or PHY 294H or LB 274 or PHY 184B) and (CEM 
142 or CEM 152 or CEM 181H or LB 172)

Postulates of quantum mechanics and the application to model systems, atoms and 
molecules. Introduction to molecular spectroscopy.
SA: CEM 362, CEM 461
Effective Spring 2013  Effective Fall 2015

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

CE 271  Introduction to Civil and Environmental Engineering
Fall of every year. Spring of every year. 4(3-3) P: (MTH 132 or concurrently) or (MTH 152H or 
concurrently) or (LB 118 or concurrently)
Measurement, analysis and design with applications in civil engineering. Surveying and 
error analysis.
DELETE COURSE
Effective Fall 2016

CE 272  Civil and Environmental Engineering Analysis
Fall of every year. Spring of every year. 3(3-0) Interdepartmental with Environmental Engineering. 
P: ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (CE 
271 or concurrently)

Basic operations in AutoCAD. Selected applications of probability and statistics to topics 
in civil and environmental engineering. Applications of engineering economics including 
interest, net present worth, benefit-cost analysis, comparison of economic alternatives, 
and life-cycle costing.
DELETE COURSE
Effective Fall 2016

CE 305  Introduction to Structural Analysis
Fall of every year. Spring of every year. 3(3-0) P: (ME 222 and (CE 271 or concurrently)) and (CE 
272 or concurrently) P: ME 222 and (CE 273 or concurrently) and (CE 274 or concurrently) R: 
Open to juniors or seniors in the Department of Civil and Environmental Engineering.

Theory of structural analysis for statically determinate structures. Qualitative structural 
analysis and behavior. Load estimation and placement. Introduction to structural analysis 
computer software. Introduction to statically indeterminate structures.
Effective Fall 2013  Effective Fall 2016

CE 312  Soil Mechanics
Fall of every year. Spring of every year. 4(3-3) P: (ME 222 and (CE 271 or concurrently)) and (CE 
272 or concurrently) P: ME 222 and (CE 273 or concurrently) and (CE 274 or concurrently) R: 
Open to juniors or seniors in the Department of Civil and Environmental Engineering and open to 
juniors or seniors in the Biosystems Engineering major.

Engineering properties of soil and their measurement. Effective-stress concept. 
Permeability and seepage. Compaction. Consolidation, shear strength, and stress-strain 
behavior.
Effective Fall 2013  Effective Spring 2016

CE 321  Introduction to Fluid Mechanics
Fall of every year. Spring of every year. 4(3-2) P: (MTH 234 or MTH 254H or LB 220) and CE 221 
and ((BE 230 or concurrently) or (CE 271 or concurrently)) or (CE 272 or concurrently)) and completion 
of Tier I writing requirement) P: (MTH 234 or MTH 254H or LB 220) and CE 221 and 
((BE 230 or concurrently) or (CE 273 or concurrently)) or (CE 274 or concurrently)) and completion 
of Tier I writing requirement) R: Open to juniors or seniors in the Department of Civil and 
Environmental Engineering or in the Biosystems Engineering Major. Not open to students with 
credit in ME 332.

Fluid properties, fluid statics, fluids in motion. Conservation of mass, energy, and 
momentum. Dimensional analysis and similitude. Internal and external flows. Applications.
Effective Fall 2013  Effective Fall 2016
CE 337  Civil Engineering Materials I
Fall of every year. Spring of every year. 4(3-3) P: (ME 222 or concurrently) and (CE 271 or concurrently) and (CE 272 or concurrently) P: (ME 222 or concurrently) and (CE 273 or concurrently) and (CE 274 or concurrently) R: Open to juniors or seniors in the Department of Civil and Environmental Engineering.

Common civil engineering construction and paving materials: aggregates, inorganic cements, asphalts, concretes, wood, and steel. Composition, structure, physical and mechanical properties, tests, and production mix design.

Effective Fall 2013 Effective Fall 2016

CE 341  Transportation Engineering
Fall of every year. Spring of every year. 3(3-0) P: ((MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently)) and (((CE 271 or concurrently) and (CE 272 or concurrently)) and completion of Tier I writing requirement) P: ((MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently)) and (((CE 273 or concurrently) and (CE 274 or concurrently)) and completion of Tier I writing requirement) R: Open to juniors or seniors in the Department of Civil and Environmental Engineering or in the Urban and Regional Planning major.

Overview of transportation system issues and problems. Fundamentals of highway design and operations. Planning and evaluation of transportation system alternatives.

SA: CE 346

Effective Fall 2013 Effective Fall 2016

CE 461  Computational Methods in Civil Engineering
Spring of every year. 3(3-2) P: (EGR 102 and CE 221) and (MTH 235 or MTH 255H or MTH 340 or MTH 347H) P: (EGR 102 and CE 221) and (MTH 235 or MTH 340 or MTH 347H) R: Open to juniors or seniors or graduate students in the Civil Engineering Major. Not open to students with credit in ME 361.

Theoretical, numerical, and computational methods for civil engineering problems. Physical modeling, numerical techniques, and programming methods. Focus on civil engineering dynamics, solving systems of differential equations, and visualizing the results.

SA: CE 390

Effective Spring 2014 Effective Fall 2016

CE 495  Senior Design in Civil and Environmental Engineering
Fall of every year. Spring of every year. 4(2-3) R: Approval of department. R: Open to seniors in the Civil Engineering Major or in the Environmental Engineering Major. Approval of department.


Effective Fall 2013 Effective Spring 2016

ENE 483  Water and Wastewater Engineering
Fall of every year. 3(3-0) Interdepartmental with Civil Engineering. P: (ENE 280 or BE 230) and (CE 321 or CHE 311) R: Open to juniors or seniors or graduate students in the College of Engineering.

Engineering and scientific basis and design of physical, chemical and biological methods for the treatment of drinking water and wastewater. Operation process selection and design.

Effective Fall 2013 Effective Fall 2016
COLLEGE OF ENGINEERING

EGR 100  Introduction to Engineering Design
Fall of every year. Spring of every year. 2(1-2) P: ((MTH 116 or concurrently) or (MTH 132 or concurrently)) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (WRA 1004 or designated score on English Placement test ) R: Open to students in the College of Engineering and open to students in the Lyman Briggs College. R: Open to students in the College of Engineering or in the Entrepreneurship and Innovation Minor and open to students in the Lyman Briggs College.

Engineering design process as modeled by team-based, interdisciplinary design projects. Roles of engineers and the contributions of engineering in society. Project management, creativity and design of products and processes to specified outcomes under specified constraints. Introduction to computing tools and physical equipment in support of engineering design. Engineering ethics. Oral and written technical communications.

Effective Spring 2015 Effective Spring 2016

DEPARTMENT OF MARKETING

MKT 383  Sales Management
Fall of every year. Spring of every year. 3(3-0) P: (MKT 300 or MKT 327) and (MKT 317 or concurrently or approval of department) P: (MKT 300 or MKT 327) and (MKT 313 or concurrently) R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Applied Engineering Sciences major or in the Sales Communication Specialization or approval of department. R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Applied Engineering Sciences Major and open to juniors or seniors in the Sales Leadership Minor or approval of department.


SA: MSC 383
Effective Spring 2013 Effective Fall 2016

MKT 480  Entrepreneurship Capstone Experience
Fall of every year. Spring of every year. 3(3-0) P: MKT 355 or MGT 352 P: BUS 190 or MGT 352 R: Open to undergraduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management. R: Open to students in the Entrepreneurship and Innovation Minor.

Entrepreneurship and business development projects. Defining marketing intangibles. Defining scope of work. Engagement management. Preparing deliverables for entrepreneurial firms. Working with entrepreneurs to solve real problems ranging from initial visioning and planning to grow to size.

SA: MSC 480
Effective Fall 2013 Effective Fall 2015

DEPARTMENT OF MECHANICAL ENGINEERING

ME 361  Dynamics
Fall of every year. Spring of every year. 3(3-0) P: CE 221 and (MTH 235 or MTH 255H or MTH 340 or MTH 347H) P: (CE 221) and (MTH 235 or MTH 340 or MTH 347H) R: Open to students in the College of Engineering.


SA: MSM 306
Effective Fall 2014 Effective Fall 2016
COLLEGE OF MUSIC

MUS 200  Introduction to Music Theory
Music Theory Review
Fall of every year. Summer of every year. 1(1-1) R: Open to graduate students in the College of Music.

Elements of music theory, with emphasis on voice-leading and harmonic analysis in diatonic and chromatic music. Review of elements of music theory, with emphasis on voice-leading and harmonic analysis in diatonic and chromatic music.
SA: MUS 800
Effective Fall 2014 Effective Summer 2016

MUS 201  Aural Skills
Aural Skills Review
Fall of every year. Spring of every year. 1(1-1) R: Open to graduate students in the College of Music.

Ear training in the areas of melody, harmony, and rhythm. Sight singing using the solfege system. Computer-aided drill programs. Review of ear training in the areas of melody, harmony, and rhythm and sight singing using the solfege system. Computer-aided drill programs.
SA: MUS 801
Effective Fall 2015 Effective Summer 2016

COLLEGE OF NURSING

NUR 806  Research for Advanced Practice Nurses
Fall of every year, Spring of every year. 3(3-0) R: Open to graduate students in the College of Nursing.

Prepares advanced practice nurses to be proficient in the ethical and clinical application of research including problem identification and critically evaluate the evidence to provide high quality care and improve practice.
Effective Summer 2014 Effective Fall 2015

NUR 836  Primary Care Management of the Adult and Aged I
Spring of every year, Summer of every year. 5(3-6) P: NUR 835 and NUR 807 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.

Principles and issues of health care management for adult and gerontological advanced practice nurses. Health promotion, risk identification, disease prevention, and acute problems for the adult and aged from culturally diverse backgrounds. The role of risk factors and normal aging changes on health. Analysis of adult and aging health topics using appropriate models, frameworks, and evidence-based research.
Effective Fall 2014 Effective Fall 2015

NUR 861  Curriculum Design in Nursing Education
Fall of every year, Summer of every year. 3(3-0) P: NUR 802 RB: Open only to master's students in Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Clinical Nurse Specialist Graduate Certificate or in the Master of Science in Nursing. R: Open to graduate students in the Master of Science in Nursing.

Analysis and application of theories, principles, and concepts associated with curriculum development, design, and evaluation.
Effective Fall 2012 Effective Spring 2016
NUR 989  
**DNP Synthesis Project**

*Doctor of Nursing Practice Synthesis Project*

Spring of every year. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course. **R:** Open to doctoral students in the College of Nursing.

- Demonstrate synthesis of didactic coursework and application to practice by learning a practice change innovation to address a health care problem and improve health outcomes.
- Request the use of the Pass-No Grade (P-N) system.
- Request the use of ET-Extension to postpone grading.
- The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.

**Effective Summer 2015 Effective Summer 2016**

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**COLLEGE OF VETERINARY MEDICINE**

VM 827  
Food Safety Modernization Act and Hazard Analysis and Critical Control Point Systems

Spring of every year. 3(3-0) **RB:** Professional or graduate status with knowledge of food safety. **R:** Open to graduate students in the Food Safety Major. Approval of college. **R:** Open to graduate students in the Food Safety Major or approval of college.

- Food safety requirements for food establishments subject to the Food Safety Modernization Act. Food safety management systems, with a focus on the Hazard Analysis and Critical Control Points (HACCP) Approach.
- Request the use of ET-Extension to postpone grading.
- The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.

**Effective Spring 2015 Effective Spring 2017**

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**DEPARTMENT OF WRITING, RHETORIC AND AMERICAN CULTURES**

WRA 110  
Writing: Science and Technology

Fall of every year. Spring of every year. 4(4-0) **P:** (WRA 1004) or designated score on English Placement test. Not open to students with credit in AL 192 or AL 192H or LB 133 or MC 111 or MC 112 or RCAH 112 or WRA 115 or WRA 125 or WRA 130 or WRA 135 or WRA 140 or WRA 145 or WRA 150 or WRA 195H.

- The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.
- **SA:** ATL 110
- **DELETE COURSE**

**Effective Summer 2016**

WRA 115  
Writing: Law and Justice in the United States

Fall of every year. Spring of every year. 4(4-0) **P:** (WRA 1004) or designated score on English Placement test. Not open to students with credit in AL 192 or AL 192H or LB 133 or MC 111 or MC 112 or RCAH 112 or WRA 110 or WRA 125 or WRA 130 or WRA 135 or WRA 140 or WRA 145 or WRA 150 or WRA 195H.

- The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.
- **SA:** ATL 115
- **DELETE COURSE**

**Effective Summer 2016**
WRA 125  Writing: The American Ethnic and Racial Experience
Fall of every year. Spring of every year. 4(4-0) P: (WRA 1004) or designated score on English Placement test Not open to students with credit in AL 192 or AL 192H or LB 133 or MC 111 or MC 112 or RCAH 112 or WRA 110 or WRA 115 or WRA 130 or WRA 135 or WRA 140 or WRA 145 or WRA 150 or WRA 195H.
The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.
SA: ATL 125
DELETE COURSE
Effective Summer 2016

WRA 130  Writing: American Radical Thought
Fall of every year. Spring of every year. 4(4-0) P: (WRA 1004) or designated score on English Placement test Not open to students with credit in AL 192 or AL 192H or LB 133 or MC 111 or MC 112 or RCAH 112 or WRA 110 or WRA 115 or WRA 125 or WRA 135 or WRA 140 or WRA 145 or WRA 150 or WRA 195H.
The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.
SA: ATL 130
DELETE COURSE
Effective Summer 2016

WRA 135  Writing: Public Life in America
Fall of every year. Spring of every year. 4(4-0) P: (WRA 1004) or designated score on English Placement test Not open to students with credit in AL 192 or AL 192H or LB 133 or MC 111 or MC 112 or RCAH 112 or WRA 110 or WRA 115 or WRA 125 or WRA 130 or WRA 140 or WRA 145 or WRA 150 or WRA 195H.
The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.
SA: ATL 135
DELETE COURSE
Effective Summer 2016

WRA 140  Writing: Women in America
Fall of every year. Spring of every year. 4(4-0) P: (WRA 1004) or designated score on English Placement test Not open to students with credit in AL 192 or AL 192H or LB 133 or MC 111 or MC 112 or RCAH 112 or WRA 110 or WRA 115 or WRA 125 or WRA 130 or WRA 135 or WRA 145 or WRA 150 or WRA 195H.
The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.
SA: ATL 140
DELETE COURSE
Effective Summer 2016

WRA 145  Writing: Men in America
Fall of every year. Spring of every year. 4(4-0) P: (WRA 1004) or designated score on English Placement test Not open to students with credit in AL 192 or AL 192H or LB 133 or MC 111 or MC 112 or RCAH 112 or WRA 110 or WRA 115 or WRA 125 or WRA 130 or WRA 135 or WRA 140 or WRA 150 or WRA 195H.
The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.
SA: ATL 145
DELETE COURSE
Effective Summer 2016
PART III – COURSE CHANGES

WRA 150  Writing: The Evolution of American Thought
Fall of every year. Spring of every year. 4(4-0) P: (WRA 1004) or designated score on English Placement test Not open to students with credit in AL 192 or AL 192H or LB 133 or MC 111 or MC 112 or RCAH 112 or WRA 110 or WRA 115 or WRA 125 or WRA 130 or WRA 135 or WRA 140 or WRA 145 or WRA 195H. The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.
SA: ATL 150
DELETE COURSE
Effective Summer 2016

WRA 195H  Writing: Major Topics in American Thought
Writing as Inquiry Honors
Fall of every year. Spring of every year. 4(4-0) P: Designated score on English Placement test RB: Designated score on English placement test. R: Open to undergraduate students. Not open to students with credit in AL 192 or AL 192H or LB 133 or MC 111 or MC 112 or RCAH 112 or WRA 110 or WRA 115 or WRA 125 or WRA 130 or WRA 135 or WRA 140 or WRA 145 or WRA 150. Not open to students with credit in LB 133 or MC 111 or MC 112 or RCAH 111 or WRA 101. The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.
SA: ATL 195H
Effective Fall 2015 Effective Summer 2016