PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF ARTS AND LETTERS

1. Request to change the Graduation Requirements for the Bachelor of Arts degree in the College of Arts and Letters. The University Committee on Undergraduate Education (UCUE) will consider this request.
   a. Under the heading Graduation Requirements for the Bachelor of Arts Degree in the College of Arts and Letters make the following changes:
      (1) In item 2. e. Credit requirement renumber items (1) and (2) to items (2) and (3) respectively.
      (2) Add the following item 2. e. (1):
          No more than 9 credits that are used to satisfy the departmental or interdepartmental credit requirement for a primary major, second degree, or additional major in the College of Arts and Letters may also be used to satisfy the departmental or interdepartmental credit requirement for another primary major, second degree, or additional major in the College of Arts and Letters.
      (3) Add the following item (2) (b) (vii):
          A student who combines a major in Arabic with a major in another field is required to earn a minimum of 27 credits in Arabic courses.

   Effective Spring 2017.

2. Request to change the Graduation Requirements for the Bachelor of Fine Arts degree in the College of Arts and Letters. The University Committee on Undergraduate Education (UCUE) will consider this request.
   a. Under the heading Graduation Requirements for the Bachelor of Fine Arts Degree in the College of Arts and Letters make the following changes:
      (1) In item 2. c. Credit requirement add the following new item (2):
          No more than 9 credits that are used to satisfy the departmental or interdepartmental credit requirement for a primary major, second degree, or additional major in the College of Arts and Letters may also be used to satisfy the departmental or interdepartmental credit requirement for another primary major, second degree, or additional major in the College of Arts and Letters.

   Effective Spring 2017.

3. Request to change the requirements for the Bachelor of Arts degree in Film Studies in the Department of English.
   a. Under the heading Requirements for the Bachelor of Arts Degree in Film Studies make the following changes:
      (1) In item 1., replace paragraph two with the following:
          The University’s Tier II writing requirement for the Film Studies major is met by completing one of the following courses: Film Studies 334, 400, 434, 435B, 460, 480, or 499. Those courses are referenced in item 3. below.
(2) In item 3. e. add the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLM 335</td>
<td>Film Directing</td>
<td>3</td>
</tr>
<tr>
<td>FLM 411</td>
<td>Collaborative Documentary Design and Production (W)</td>
<td>3</td>
</tr>
<tr>
<td>FLM 435A</td>
<td>Creating the Fiction Film I</td>
<td>3</td>
</tr>
<tr>
<td>FLM 435B</td>
<td>Creating the Fiction Film II (W)</td>
<td>3</td>
</tr>
<tr>
<td>LL 250A</td>
<td>Topics in National Cinemas: German Cinema</td>
<td>3</td>
</tr>
<tr>
<td>RUS 250</td>
<td>Russian and Soviet Cinema</td>
<td>3</td>
</tr>
</tbody>
</table>

Delete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL 250D</td>
<td>Topics in National Cinemas: Russian and Soviet Cinema</td>
<td>3</td>
</tr>
</tbody>
</table>

Effective Spring 2017.

4. Request to change the requirements for the Minor in Film Studies in the Department of English.

a. Under the heading Requirements for the Minor in Film Studies make the following changes:

(1) In item 5. add the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLM 211</td>
<td>Documentary History and Theory</td>
<td>3</td>
</tr>
<tr>
<td>FLM 255</td>
<td>Stars and Directors</td>
<td>3</td>
</tr>
<tr>
<td>RUS 250</td>
<td>Russian and Soviet Cinema</td>
<td>3</td>
</tr>
</tbody>
</table>

Delete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL 250D</td>
<td>Topics in National Cinemas: Russian and Soviet Cinema</td>
<td>3</td>
</tr>
</tbody>
</table>

Effective Spring 2017.

5. Request to change the requirements for the Minor in Lesbian, Gay, Bisexual, Transgender, Queer and Sexuality Studies:

a. Under the heading Minor in Lesbian, Gay, Bisexual, Transgender, Queer and Sexuality Studies make the following change:

(1) Add the following statement:

At least 9 credits counted towards the requirements for this minor must be unique. Unique credits must not be used to fulfill another university, college, or major requirement in the student’s program.

Effective Spring 2017.
ELI BROAD COLLEGE OF BUSINESS

1. Request to 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 2. delete the following courses:
           ITM 309 Business Information Systems and Technology  3
           MI 331 Introduction to Interactive Media Development  3
      Add the following courses:
           ITM 209 Business Analytics and Information Systems   3
           MI 231 Game and Interactive Media Development   3

   Effective Spring 2017.

2. Request to delete the curriculum and degree requirements for the Master of Business Administration (Executive M.B.A.) degree in The Eli Broad College of Business. The University Committee on Graduate Studies (UCGS) will provide consultative commentary to the Provost after considering this request. The Provost will make a determination after considering the consultative commentary from the University Committee on Graduate Studies.
   No new students are to be admitted to the program effective Fall 2016. No students are to be readmitted to the program effective Fall 2016. Effective Spring 2017, coding for the program will be discontinued and the program will no longer be available in The Eli Broad College of Business. Students who have not met the requirements for the Master of Business Administration (Executive M.B.A.) through The Eli Broad College of Business prior to Spring 2017 will have to change their major.

3. Request to change the requirements for the Graduate Certificate in Human Resource Management and Development in the Department of Management. The University Committee on Graduate Studies (UCGS) will consider this request at its September 12, 2016 meeting.
   a. Under the heading Admission replace item 3. with the following:
      have three or more years of full-time managerial experience in a supervisory role in the private or public sector.
   b. Under the heading Requirements for the Graduate Certificate in Human Resource Management and Development make the following changes:
      (1) In item 1. add the following course:
           MGT 802 Strategic Analysis     1
      Delete the following course:
           MGT 801 Analyzing Your Organization   1
      (2) Replace item 3. with the following:
      Students are expected to maintain a cumulative grade-point average of 3.0 in all courses in the certificate and a 2.0 grade in each course in order for the course to count towards the program.

   Effective Spring 2017.
4. Request to change the requirements for the **Graduate Certificate** in **Leadership and Managing Teams** in the Department of Management. The University Committee on Graduate Studies (UCGS) will consider this request at its September 12, 2016 meeting.

   a. Under the heading **Admission** replace item 3. with the following:

   have three or more years of full-time managerial experience in a supervisory role in the private or public sector.

   b. Under the heading **Requirements for the Graduate Certificate in Leadership and Managing Teams** make the following changes:

   (3) In item 1. add the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 802</td>
<td>Strategic Analysis</td>
<td>1</td>
</tr>
</tbody>
</table>

   Delete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 801</td>
<td>Analyzing Your Organization</td>
</tr>
</tbody>
</table>

   (4) Replace item 3. with the following:

   Students are expected to maintain a cumulative grade-point average of 3.0 in all courses in the certificate and a 2.0 grade in each course in order for the course to count towards the program.

Effective Spring 2017.

5. Request to change the requirements for the **Master of Science** degree in **Management, Strategy, and Leadership** in the Department of Management. The University Committee on Graduate Studies (UCGS) will consider this request at its September 12, 2016 meeting.

   a. Under the heading **Requirements for the Master of Science Degree in Management, Strategy, and Leadership** make the following changes:

   (1) Add the following statement to the introductory paragraph:

   Students must work closely with their advisor to ensure courses are taken in the correct sequence. This program is a lock-step program.

   (2) In item 1. delete the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 802</td>
<td>Strategic Analysis</td>
<td>1</td>
</tr>
<tr>
<td>MGT 888</td>
<td>Communication Strategies for Business</td>
<td>2</td>
</tr>
</tbody>
</table>

   (3) In item 1. change the credits of MGT 801 from ‘1’ to ‘2’.

   (4) Renumber item 2. to item 3.

   (5) Add the following item 2.:

   Students are expected to maintain a cumulative grade-point average of 3.0 in all courses in the program and a 2.0 grade in each course in order for the course to count towards the program.

Effective Spring 2017.
6. Request to change the requirements for the Minor in Retail Management in the Department of Management.

   a. Under the heading Requirements for the Minor in Retail Management make the following changes:

      (1) Delete items 1. and 2. and replace with the following:

         1. One of the following courses (3 credits):
            MGT 315 Managing Human Resources and Organizational Behavior 3
            MGT 325 Management Skills and Processes 3

         2. Both of the following courses (6 credits):
            ADV 481 Retail Strategy Analysis 3
            MGT 460 Capstone for Management Majors (W) 3

         3. One of the following courses (3 credits):
            MKT 351 Retail Management 3
            SCM 371 Procurement and Supply Management 3

      (2) Renumber item 3. to item 4. and delete the following course:

         MGT 325 Management Skills and Processes 3

Effective Spring 2017.

7. Request to change the requirements for the Minor in Sports Business Management in the Department of Management.

   a. Under the heading Requirements for the Minor in Sports Business Management make the following changes:

      (1) Change the total credits from ‘15’ to ‘18’.

      (2) Replace item 1. with the following:

         All of the following courses (12 credits):
         MGT 315 Managing Human Resources and Organizational Behavior 3
         OR
         MGT 325 Management Skills and Processes 3
         MGT 460 Capstone for Management Majors (W) 3
         MGT 479 Sports Business Management 3
         MGT 493A Sports Business: Internship 3
         OR
         MGT 493B Sports Business: Fieldwork Seminar 3

      (3) Change item 2. to ‘Two of the following courses’ and delete the following course:

         MI 300 Media Policy and Economics 3

Effective Spring 2017.
8. Request to change the requirements for the Graduate Certificate in Strategic Management in the Department of Management. The University Committee on Graduate Studies (UCGS) will consider this request at its September 12, 2016 meeting.

   a. Under the heading Admission replace item 3. with the following:

   have three or more years of full-time managerial experience in a supervisory role in the private or public sector.

   b. Under the heading Requirements for the Graduate Certificate in Strategic Management make the following changes:

   (1) In item 2. add the following course:

   MGT 842 Leading Strategic Change 2

   Delete the following course:

   MGT 875 Change Management 2

   (2) Replace item 3. with the following:

   Students are expected to maintain a cumulative grade-point average of 3.0 in all courses in the certificate and a 2.0 grade in each course in order for the course to count towards the program.

Effective Spring 2017.

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**COLLEGE OF EDUCATION**

1. Request to change the requirements for Teacher Certification in the College of Education. The Teacher Education Council (TEC) will consider this request at its September 12, 2016 meeting.

   a. Under the heading Admission to the Teacher Certification Program replace the entire entry with the following:

   Information about current admission requirements and the admission application process can be found at http://education.msu.edu/academics/undundergradu/apply-teacher-prep.asp. MSU undergraduates generally apply during the first semester of the sophomore year, although they may apply later.

   To be considered for admission to the Teacher Certification Program, an applicant must:

   1. Have earned a minimum of 28 credits.
   2. Have earned a cumulative grade point average of at least 2.5.
   3. Have successfully completed any required remedial-developmental-preparatory course work.
   4. Have disclosed any prior convictions or civil infractions and provided required court documents as necessary.
   5. Have passed all portions of the Michigan Test for Teacher Certification (MTTC) Professional Readiness Examination (PRE) or meet established criteria using approved alternative pass measures.
   6. Have completed all aspects of the application process before the published deadline.
In addition to general admission requirements, applicants applying for admission to the Teacher Certification Program with a major in Special Education must also complete one or two supervised pre-admission experiences, totaling at least 42 hours, with children or youth who have special needs. Prospective Special Education students are encouraged to talk with Special Education faculty about the relative merits of various sites for securing the required experience. Applicants to the Special Education program must submit a form verifying completion of the experience along with a complete admission application (see http://education.msu.edu/academics/undundergradu/apply-teacher-prep.asp). Only students who have completed the required experience will be considered for admission to the Special Education major.

Persons who already hold baccalaureate degrees from Michigan State University or other recognized institutions of higher learning are required to follow the process for Post-Bachelors students (see http://education.msu.edu/certification/postba/post-bachelor-application.asp). Contact the College of Education Student Affairs Office for more information.

Persons are selected for admission based on a holistic evaluation of criteria that include, but are not limited to, cumulative grade point average, test results, and dispositions for teaching.

b. Under the heading Prerequisites for Admission to the Internship Year Studies Program in item 3. b. 6. delete the following statement:

Elementary Education candidates who request internship placements in grades 6-8 must pass appropriate subject matter major/minor tests in addition to the Elementary Education test.

c. Under the heading Undergraduate Professional Education Course Requirements for Secondary Teacher Certification make the following change in item 1. b.

In the first note, replace the second sentence with the following:

Students with a disciplinary major in music education must complete Teacher Education 150, Teacher Education 250, Teacher Education 302 and 496, and Music 277 to be considered for admission to the Music Education Internship Year.

d. Under the heading Language Arts Teaching Major for Elementary Teacher Certification make the following changes:

(1) In item 1. a. delete the note: Special Education majors must take Linguistics 200 or 401.

(2) In item 2. a. delete the following course:

ENG 327 Introduction to Playwriting 3

(3) In item 3. b. delete the following courses:

AMS 210 Introduction to Popular Culture 4
ENG 332 Historical Approaches to Film 3
FLM 331 Contemporary Film and Media Theory 3

(4) In item 3. c. delete the following courses:

ASN 464 Studies in the Literature of Asia and the Asian Diaspora (W) 3
ENG 265 Classical Myths and Literature 3

(5) In item 4. change the credits from ‘1 to 4’ to ‘3 to 4’ and add the following courses:

TE 430 Introduction to Arts in the Classroom 3
TE 431 Learning Through Drama 3
TE 432 Learning Through Movement 3
e. Under the heading **Integrated Science Teaching Major for Elementary Teacher Certification** make the following changes:

1. In item 1. change ‘ZOL 355’ to ‘IBIO 355’.
2. In item 5. change the ‘SME’ subject to ‘ISE’.

f. Under the heading **Mathematics Teaching Major for Elementary Teacher Certification** make the following change in item 1.:

1. Change ‘SME 430’ to ‘MTHE 430’.

Effective Spring 2017.

2. Request to change the administrative responsibility of the **Graduate Specialization in Economics of Education** in the College of Education to the Department of Educational Administration. The University Committee on Graduate Studies (UCGS) will consider this request at its September 12, 2016 meeting.

Effective Spring 2017.

3. Request to change the requirements for the **Graduate Specialization in Economics of Education** in the Department of Educational Administration. The University Committee on Graduate Studies (UCGS) will consider this request at its September 12, 2016 meeting.

a. Under the heading **Requirements for the Graduate Specialization in Economics of Education** replace the entire entry with the following:

   Students must complete the following (18 or 19 credits):

   1. One of the following groups of courses, either a., b., or c.:
      
      a. EAD 935 Regression Analysis for Education Policy 3
         EAD 936 Econometric Analysis for Education Policy 3
      b. EC 820A Econometrics IA 3
         EC 820B Econometrics IB 3
      c. CEP 934 Multivariate Data Analysis I 3
         CEP 935 Advanced Topics in Multivariate Data Analysis II 3

   2. One additional 3- or 4-credit graduate-level advanced statistics or econometrics course as determined by the student’s guidance committee.

   3. One of the following courses (3 credits):
      
      AFRE 805 Microeconomic Analysis 3
      EC 812A Microeconomics I 3
      PPL 805 Microeconomic Theory 3

   4. Both of the following courses (6 credits):
      
      EAD 948 Advanced Economics of Education 3
      EAD 949 Advanced Seminar in Education Policy 3

   5. Complete a substantial research paper on a topic in the economics of education.

Effective Spring 2017.
4. Request to change the name of the Doctor of Philosophy degree in Educational Policy in the Department of Educational Administration to Education Policy. The University Committee on Graduate Studies (UCGS) will consider this request at its September 12, 2016 meeting.

Students admitted to the major prior to Spring 2017 will graduate with a Doctor of Philosophy Degree in Educational Policy.

Students admitted to the major Spring 2017 and forward will graduate with a Doctor of Philosophy Degree in Education Policy.

Effective Spring 2017.

5. Request to change the requirements for the Doctor of Philosophy degree in Education Policy in the Department of Educational Administration. The University Committee on Graduate Studies (UCGS) will consider this request at its September 12, 2016 meeting.

a. Under the heading Requirements for the Doctor of Philosophy Degree in Education Policy replace the entire entry with the following:

Students must complete the requirements specified below:

1. Education Policy Core. All of the following courses (12 credits):
   - EAD 942 Economics of Education 3
   - EAD 943 Politics of Education 3
   - EAD 944 Social Context of Education 3
   - EAD 947 Comparative International Education Policy 3

2. Education Inquiry and Research.
   a. All of the following courses (10 to 12 credits):
      - CEP 930 Educational Inquiry 3
      - EAD 935 Regression Analysis for Education Policy 3
      - EAD 936 Econometric Analysis for Education Policy 3
      - EAD 995 Research Practicum in Educational Administration 1 to 3
   
   b. One 3-credit qualitative research methods course.
   c. One 3-credit advanced research methods course.

3. Concentration in Education Policy (12 credits):
   Four courses in disciplinary or policy studies selected to provide the student with competence in a specialized area of research, including at least 3 credits of EAD 949 Advanced Seminar in Education Policy.


Effective Summer 2017.
PART II - NEW COURSES AND CHANGES

COLLEGE OF ARTS AND LETTERS

AL 110 Writing and Civic Life
Fall of every year. 4(4-0) P: (WRA 1004) or designated score on English Placement test R: Approval of college.

NEW 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, with particular emphasis on the rhetorical practices useful in democratic deliberation about social, cultural, and political problems.
Effective Fall 2016

AL 210 Democratic Discourse and Critique in the Arts and Humanities
Spring of every year. 4(4-0) P: AL 110 or approval of college R: Approval of college.

NEW Arts and humanities contributions to identifying and solving social, cultural, and political problems. Various modes of participation and engagement by diverse groups in democratic discourse broadly understood. Political debate, public discourse, critique, protest, dissent, and artistic expression.
Effective Fall 2016

FLM 255 Stars and Directors
Fall of every year. 3(3-2) A student may earn a maximum of 3 credits in all enrollments for this course. P: Completion of Tier I Writing Requirement

NEW An introductory survey course focused on individual film directors and/or stars.
Effective Fall 2016

CHS 350 Studies in the Chinese Language
Spring of every year. 3(3-0) P: CHS 201 P: CHS 301 or concurrently
Grammatical structures of modern Chinese. Grammar review, sound system, word formation, sentence and discourse structures, historical evolution of the Chinese language, dialects, sociolinguistics. Grammatical structures of modern Chinese, grammar review, sound system, word formation, sentence and discourse structures, dialects and sociolinguistic variation, the history of writing system, pragmatics
Effective Spring 2015 Effective Spring 2017

ROM 355 French, Italian and Spanish Cinema since 1930
French, Italian, Portuguese or Spanish Cinema
Spring of even years. 4(2-4) P: Completion of Tier I Writing Requirement R: Not open to freshmen.

Effective Spring 2014 Effective Fall 2016

WRA 0102 Preparation for College Writing
Fall of every year. Spring of every year. 0(0-2) R: Not open to graduate students. C: WRA 1004 concurrently.
Practice in applying varied strategies of invention, arrangement, revision, style and delivery.
SA: ATL 0102
DELETE COURSE
Effective Summer 2016

WRA 1004 Preparation for College Writing
Preparation for College Writing (D)
Fall of every year. Spring of every year. 3(3-0) 3(5-0) R: Not open to graduate students. C: WRA 0102 concurrently.
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 Tier 1 writing.
SA: ATL 1004
Effective Fall 2015 Effective Summer 2016
ELI BROAD COLLEGE OF BUSINESS

ACC 230  Survey of Accounting Concepts
Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Not open to undergraduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management. R: Not open to students in the Accounting major or in the Business - Admitted major or in the Business-Preference major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major. Not open to students with credit in ACC 202.
Basic concepts in financial and managerial accounting for non-business majors.
Effective Fall 2013 Effective Spring 2017

ACC 300  Intermediate Financial Accounting I
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: ACC 202 P: ACC 201 and ACC 202 R: Open to juniors or seniors in the Department of Accounting and Information Systems or in the Department of Finance or approval of department.
Effective Spring 2013 Effective Fall 2016

ACC 305  Intermediate Accounting for Finance Majors
Fall of every year. Spring of every year. 3(3-0) P: ACC 202 P: ACC 201 and ACC 202 R: Open to juniors or seniors in the Finance Major or in the General Management Major or in the Human Resource Management Major or in the Marketing Major or in the Supply Chain Management Major.
R: Open to juniors or seniors in the Finance Major or in the Human Resource Management Major or in the Marketing Major or in the Supply Chain Management Major.
Major measurement, valuation, and reporting concepts and procedures underlying the assets, liabilities, owners' equity, revenues, and expenses contained in financial statements. Analysis, interpretation, and use of financial statements.
Effective Spring 2016 Effective Fall 2016

ACC 321  Accounting Information Systems
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: ACC 202 P: ACC 201 and ACC 202
Conceptual modeling and implementation of accounting transaction processing systems. Enterprise value chains, documentation of workflow processing and control requirements, and modeling of accounting interoperability requirements.
Effective Fall 2013 Effective Fall 2016

ACC 333  Taxation and Accounting for the Entrepreneur
Fall of every year. 3(3-0) P: ACC 202 P: ACC 201 and ACC 202 R: Open to undergraduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the Department of Accounting and Information Systems. Not open to students with credit in ACC 331. C: MGT 352 concurrently or MKT 355 concurrently.
Basic concepts of income taxation and accounting applicable to business entrepreneurs and their business enterprises.
Effective Fall 2013 Effective Fall 2016

ACC 493  Internship
Fall of every year. Spring of every year. Summer of every year. 1 credit. A student may earn a maximum of 2 credits in all enrollments for this course. P: ACC 202 P: ACC 201 and ACC 202 R: Approval of department.
Professional internship in public, industrial, or governmental accounting under faculty supervision.
Request the use of the Pass-No Grade (P-N) system.
Effective Spring 2013 Effective Fall 2016
### ITM 311  Systems Analysis and Design
Fall of every year. Spring of every year. 3(3-0) **R:** Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Information Technology Minor and not open to students in the School of Hospitality Business. **R:** Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Information Technology Minor.

Structured analysis and design of information systems. Understanding of the system development process, and organizational issues associated with the design and implementation of information systems.  
**Effective Fall 2016 Effective Spring 2017**

### ITM 490  Independent Study in Information Technology
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. **P:** ITM 309 **P:** ITM 209 **R:** Open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.

Directed study in information technology under faculty supervision.  
**Effective Spring 2013 Effective Fall 2016**

### ITM 491  Special Topics in Information Technology
Fall of every year. Spring of every year. 1 to 4 credits. **P:** ITM 309 **P:** ITM 209 **R:** Open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.

Current topics in information technology.  
**Effective Spring 2013 Effective Fall 2016**

### MBA 843  Career Management
Fall of every year. 1 to 3 credits. **R:** Open to MBA students.

Understanding career development theory through experiential and skill-based learning. Active practice of career management, networking, negotiation, goal setting, and development planning skills.  
**Request the use of the Pass-No Grade (P-N) system. Effective Fall 2013 Effective Spring 2017**

### 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.

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 2016 Effective Spring 2017**

### MBA 846  MBA Executive Lecture Series
Fall of every year. 1(1-0) **R:** Open to MBA students in the The Eli Broad College of Business and open to undergraduate students in the Honors College.

NEW Executive speaker series course to support FT MBA development through the insertion of CEO perspectives on interdisciplinary business topics. Through discussions of real-world events and scenarios, students will gain insight into the global business community, learning innovative strategies to manage high-performance organizations.  
**Effective Spring 2017**
FI 320  Introduction to Finance  
Fall of every year. Spring of every year. 3(3-0)  R: Open to students in the James Madison College or in the Apparel and Textiles major or in the Applied Engineering Sciences major or in the Computer Science major or in the Construction Management major or in the Economics major or in the Food Industry Management major or in the Interdisciplinary Studies in Social Science major or in the Media and Information major or in the Media and Communication Technology major or in the Media Arts and Technology major or in the Natural Resource Recreation and Tourism major or in the Packaging major or in the Retailing major or in the Security Management Specialization or in the Apparel and Textile Design major.  R: Not open to students in the Accounting major or in the Business - Admitted major or in the Business-Preference major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major.  Not open to students with credit in FI 311.  
Overview of finance for the non-business major. Stocks, bonds, mutual funds, financial statement analysis, capital budgeting, financial planning.  
Effective Summer 2013 Effective Spring 2017

FI 983  Financial Econometrics  
Spring of every year. 3(3-0)  P: EC 818 and (EC 821 or concurrently) and (EC 822 or concurrently)  
R: Open only to doctoral students in the College of Business or Economics major.  
Econometric techniques of relevance to problems in finance: asset pricing. Interpretation of the results and limitations of recent empirical finance research.  
DELETE COURSE  
Effective Summer 2016

GBL 323  Introduction to Business Law  
Fall of every year. Spring of every year. 3(3-0)  R: Open to students in the James Madison College or in the Agribusiness Management major or in the Agribusiness Management Specialization or in the Apparel and Textile Design major or in the Apparel and Textiles major or in the Applied Engineering Sciences major or in the Communication major or in the Computer Science major or in the Construction Management major or in the Economics major or in the Food Industry Management Specialization or in the Food Industry Management major or in the Forestry major or in the Humanities-Prelaw major or in the Interdisciplinary Studies in Social Science major or in the Interdisciplinary Studies in Social Science: Social Science Education major or in the Interdisciplinary Studies in Social Science major or in the Materials Science and Engineering major or in the Media and Information major or in the Media and Communication Technology major or in the Natural Resource Recreation and Tourism major or in the Packaging major or in the Retailing major or in the Security Management Specialization.  R: Not open to students in the Accounting major or in the Business - Admitted major or in the Business-Preference major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major.  
Introduction to the legal system. Basic concepts of constitutional law, torts, contracts, and product liability. Administrative law and government regulations.  
Effective Spring 2013 Effective Spring 2017

MGT 315  Managing Human Resources and Organizational Behavior  
Fall of every year. Spring of every year. Summer of every year. 3(3-0)  R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business.  R: Open to juniors or seniors in the Accounting major or in the Finance Major or in the Marketing Major or in the Supply Chain Management Major or in the Business - Admitted major or in the Human Resource Management Major or in the Management Major and not open to students in the School of Hospitality Business.  
SA: MGT 310  
Effective Spring 2013 Effective Spring 2017
MGT 325  Management Skills and Processes  
Fall of every year. Spring of every year. Summer of every year. 3(3-0)  R: Open to juniors or seniors in the James Madison College or in the Advertising Major or in the Agribusiness Management Undergraduate Specialization or in the Agribusiness Management Major or in the Apparel and Textile Design Major or in the Apparel and Textiles Major or in the Applied Engineering Sciences Major or in the Construction Management Major or in the Dietetics Major or in the Economics Major or in the Food Industry Management Specialization or in the Food Industry Management Major or in the Food Science Major or in the Interdisciplinary Studies in Social Science Major or in the Media and Information Major or in the Packaging Major or in the Security Management Specialization or in the Public Relations Specialization.  R: Open to juniors or seniors and not open to students in the Accounting major or in the Finance Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major or in the Business - Admitted major or in the Business-Preference major or in the Hospitality Business Major.

Managerial skills and processes in goal-directed institutions.
SA: MGT 302  
**Effective Fall 2015**  **Effective Spring 2017**

MGT 352  Entrepreneurship: New Venture Process  
Fall of every year. Spring of every year. 3(3-0)  P: ACC 202  R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business.  R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor and not open to students in the School of Hospitality Business.  Not open to students with credit in MKT 355.

Becoming an entrepreneur. Developing successful business ideas. Moving from an idea to an entrepreneurial firm. Managing and growing an entrepreneurial firm.

**Effective Spring 2013**  **Effective Spring 2017**

MGT 411  Organizational Staffing  
Spring of every year. 3(3-0)  P: (MGT 315 or concurrently)  P: (MGT 315 or concurrently) or (MGT 325 or concurrently)  R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business.


**Effective Spring 2016**  **Effective Spring 2017**

MGT 412  Compensation and Reward Systems  
Fall of every year. 3(3-0)  P: (MGT 315 or concurrently)  P: (MGT 315 or concurrently) or (MGT 325 or concurrently)  R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business.


**Effective Fall 2015**  **Effective Spring 2017**
MGT 413  Personnel Training and Development  
Fall of every year. 3(3-0) P: (MGT 315 or concurrently) or (MGT 325 or concurrently) R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business. 
R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor and not open to students in the School of Hospitality Business. 
Effective Fall 2015 Effective Spring 2017

MGT 414  Diversity in the Workplace  
Spring of every year. 3(3-0) P: (MGT 315 or concurrently) or (MGT 325 or concurrently) R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students. 
R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor or in the Sports Business Management Minor and not open to students in the Hospitality Business Major. 
Problems experienced by racial, ethnic, physically disabled, and other minorities in work organizations. Awareness training for managers. Ethical issues.  
Effective Spring 2016 Effective Spring 2017

MGT 418  Labor-Management Relations  
Spring of every year. 3(3-0) P: (MGT 315 or concurrently) R: Open to seniors or juniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business. 
R: Open to juniors or seniors in the Accounting major or in the Finance Major or in the Marketing Major or in the Supply Chain Management Major or in the Business - Admitted major or in the Human Resource Management Major or in the Management Major or in the Retail Management Minor or in the Sports Business Management Minor and not open to students in the School of Hospitality Business. 
Contextual framework of employment relations in union and non-union settings; history and labor law; environmental influences and employer and organized labor strategies; collective bargaining process including negotiations; grievance administration and arbitration; public sector employment relations.  
Effective Spring 2013 Effective Spring 2017

MGT 460  Capstone for Management Majors (W)  
Fall of every year. Spring of every year. 3(2-2) P: (MGT 315 or concurrently) R: Open to seniors in the General Management major or in the Human Resource Management major. 
R: Open to seniors in the Human Resource Management Major or in the Management Major or in the Retail Management Minor or in the Sports Business Management Minor. 
Topics in management and organizational behavior.  
Effective Spring 2013 Effective Spring 2017

MGT 479  Sports Business Management  
Fall of every year. Spring of every year. 3(3-0) R: Open to juniors or seniors in the Marketing Major or in the General Management Major or in the Media and Information Major. 
R: Open to juniors or seniors in the Sports Business Management Minor or approval of department. 
Introduction to current sports industry landscape and impact of business on decision-making in sports. Focus on trends in intercollegiate athletics and professional sports including careers, governance, organizational structure, revenue and sports entertainment.  
Effective Fall 2015 Effective Spring 2017
MGT 491 Special Topics in Management
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
P: MGT 315 or concurrently P: (MGT 315 or concurrently) or (MGT 325 or concurrently) R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business. R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor or in the Sports Business Management Minor and not open to students in the School of Hospitality Business.
Topics in management such as advanced organizational behavior, managing labor relations, organizational development, organizational theory and design, strategic leadership and decision making.
Effective Spring 2013 Effective Spring 2017

MGT 493 Fieldwork in Sports Business
Sports Business: Internship
Spring of every year. Summer of every year. 3(3-0) P: MGT 479 RB: Students not admitted in the Sports Business Management Minor may, with department approval, be enrolled into the class. R: Open to juniors or seniors in the Marketing Major or in the General Management Major. R: Open to juniors or seniors in the Sports Business Management Minor or approval of department. Not open to students with credit in MGT 493B.
Supervised, professional work or internship experience in the field of sports business with intercollegiate athletics or professional sports associations, firms, leagues, organizations, teams or sports business and entertainment companies.
Effective Fall 2015 Effective Spring 2017

MGT 493A Sports Business: Fieldwork Seminar
Spring of every year. 3(3-0) P: MGT 479 RB: Students not admitted in the Sports Business Management Minor may, with department approval, be enrolled into the class. R: Open to juniors or seniors in the Sports Business Management Minor or approval of department. Not open to students with credit in MGT 493B.
Leadership in day-to-day operations, decision making, strategic planning alongside industry leader in sports business. Hands-on projects in intercollegiate athletics, professional sports or applicable associations, firms or leagues. Rotational exposure to unit(s) and/or executive(s) within organization. Behind the scenes experience and knowledge of industry through real-time projects and solution-focused problem solving.
Effective Spring 2017

MGT 879 Strategic Management Consulting Projects
Spring of every year. 3(2-2) P: MBA 850 and MGT 877 P: MBA 850 R: Open to MBA students.
Team-based, project-oriented course in which students work with a company to analyze a strategic issue facing the company. Development of a consulting engagement from project definition through a final report and recommendations. 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.
Effective Fall 2013 Effective Spring 2017

MKT 327 Introduction to Marketing
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: Open to juniors or seniors in the College of Agriculture and Natural Resources or in the College of Communication Arts and Sciences or in the College of Engineering or in the James Madison College or in the College of Social Science or in the College of Arts and Letters. R: Open to juniors or seniors and not open to students in the Accounting major or in the Business - Admitted major or in the Business-Preference major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major. Not open to students with credit in MKT 300.
Buyer behavior, segmentation, positioning, demand analysis, information, pricing, promotion, channels, product policies, and ethics in consumer, reseller, industrial, and service markets.
SA: MSC 327
Effective Spring 2013 Effective Spring 2017
MKT 412  Marketing Technology and Analytics  
Spring of every year. 3(3-0) Interdepartmental with Information Technology Management. P: (MKT 300 or MKT 327) and MKT 317 and ITM 309  R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and open to master's students in the Marketing Research major.  
Collection and analysis of information from the web, including web-based surveys, web analytics, online communities, blog scraping, and web spiders.  
SA: MSC 412  
Effective Fall 2015  Effective Fall 2016

SCM 304  Survey of Supply Chain Management  
Fall of every year. Spring of every year. Summer of every year. 3(3-0)  R: Not open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.  R: Not open to students in the Business - Admitted major or in the Accounting major or in the Business-Prefersence major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major.  Not open to students with credit in SCM 303.  
Objectives, processes, and functions of supply chain management activities including procurement, manufacturing, and logistics. The role of supply chain processes in creating competitive advantage with respect to quality, flexibility, lead-time, and cost.  
Effective Fall 2016  Effective Spring 2017

COLLEGE OF EDUCATION

ED 928  Proseminar in Educational Policy  
Spring of every year. 1(2-0) R: Open to graduate students in the Educational Policy major.  
Disciplinary perspectives on policy issues. Influence of research on policy process and outcomes. Workshops in educational policy.  
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 1 semester after the end of the semester of enrollment.  
DELETE COURSE  
Effective Spring 2017

ED 976  Capstone in Educational Policy Analysis and Evaluation  
Spring of every year. 3(3-0) RB: TE 901 and EAD 942 and EAD 943 and EAD 925 and ED 928  R: Open to graduate students in the Educational Policy major.  
Essential issues in policy analysis and evaluation. Prominent evaluations of educational policy initiatives at national, state, and local levels. Policy evaluation methods. Policy analysis and group evaluation project.  
DELETE COURSE  
Effective Spring 2017

EAD 935  Regression Analysis for Education Policy  
Spring of every year. 3(2-2) P: CEP 932 or STT 421 or approval of department RB: Knowledge of: central tendency and dispersion, correlations and cross-tabulations, sampling distribution, hypothesis testing, confidence intervals, testing differences in means, tests of associations. R: Open to graduate students.  
NEW  Foundations of regression analysis. Underlying assumptions. Applications to education policy with attention to challenges of establishing causal relations. STATA software skills for independent scholarly investigations.  
Effective Spring 2017
EAD 936  Econometric Analysis for Education Policy
Fall of even years. 3(3-0) RB: Prior courses in basic economic theory and statistical methods. R: Open to graduate students.

EAD 942  Economic Analysis in Educational Policy Making Economics of Education
Spring of even years. Spring of every year. 3(3-0) Interdepartmental with Teacher Education. R: Open to graduate students.

EAD 943  Politics of Education
Fall of odd years. Spring of every year. 3(3-0) R: Open to graduate students. Education as a political enterprise. Interplay of federal relations, democratic principles, and contending sources of authority in shaping educational policy and practice. Politics of education in the United States. Interplay of key institutions (e.g., school boards, state governments, Congress, mayors) and actors (e.g., elected officials, parents, teachers unions, and the general public) shaping the public education system. Effective Fall 1992 Effective Spring 2017

EAD 944  Social Context of Education
Fall of every year. 3(3-0) R: Open to graduate students.
NEW Evolution of educational institutions and practices in response to economic, political, demographic and social change. Legacies of change for instruction, curriculum, segmentation of students, and students’ school experiences. Effect of family and community on students and schools. Conflicting goals/purposes of public education. Struggles for educational equity and opportunity. Effective Fall 2016

EAD 947  Comparative International Education Policy
Fall of every year. 3(3-0) Interdepartmental with Teacher Education. R: Open to graduate students.

EAD 948  Advanced Economics of Education
Spring of odd years. 3(3-0) P: EC 820B or approval of department RB: Prior graduate level course work in econometrics and undergraduate or graduate level course work in economic theory. R: Open to graduate students.
NEW Advanced research in the intersection of economics and education. Returns to education, education production, school choice, teacher quality and compensation, financial aid, and postsecondary access. Effective Spring 2017

EAD 949  Advanced Seminar in Education Policy
Fall of every year. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to graduate students.
NEW Seminars on rotating topics in advanced, contemporary education policy research. Effective Fall 2016
EAD 991C Special Topics in Education Policy
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to graduate students.

NEW Special topics in education policy.
Effective Fall 2016

KIN 445 Sociocultural Analysis of Physical Activity (W)
Sport and Physical Activity in Society (W)
Fall of every year. Spring of every year. 3(3-0) P: (KIN 173) and completion of Tier I writing requirement R: Open to undergraduate students in the Athletic Training Major or in the Kinesiology major and open to graduate students in the Department of Kinesiology.
Sociocultural context of and social practices in sport and physical activity.
SA: PES 445
Effective Spring 2013 Effective Spring 2017

TE 407 Teaching Subject Matter to Diverse Learners – Secondary (W)
Fall of every year. 5(3-8) P: (TE 301 or TE 302) or completion of Tier I writing requirement P: (TE 301 or TE 302) and Completion of Tier I Writing Requirement R: Not open to freshmen or sophomores and open to students in the Secondary Teacher Certification Program (Admitted).
Examining teaching as enabling diverse learners to inquire into and construct subject-specific meanings at the secondary level (7-12). Adapting subject matter to learner diversity. Exploring multiple ways diverse learners make sense of the curriculum.
Effective Fall 2014 Effective Fall 2016

SCHOOL OF MUSIC

MUS 480 Counterpoint
Fall of every year. Spring of every year. 2(2-0) P: MUS 381 R: Open to students in the College of Music.
Creative and analytical work with two-and three-part counterpoint in the style of J.S. Bach.
Effective Fall 2016 Effective Spring 2017

MUS 494 Musicians' Health and Wellness
Fall of every year. Spring of every year. 2(2-0) A student may earn a maximum of 2 credits in all enrollments for this course. R: Open to graduate students in the College of Music and open to graduate students in the College of Music and not open to freshmen in the College of Music.
This course is intended for the promotion of healthy musical and lifestyle habits and choices, as well as performance enhancement, among music students, through knowledge of all aspects of their musical selves-physical, psychological, and spiritual. The course will focus on general self-care through Body Mapping and exercise but will also cover the four target areas identified by the National Association of Schools of Music as crucial for musicians: musculoskeletal issues, hearing conservation, voice care, and psychological issues
Effective Spring 2017

MUS 870 Advanced Modal Counterpoint
Fall of every year. 3(3-0) P: MUS 480 or approval of college P: MUS 869 or approval of college R: Open to graduate students in the College of Music.
Techniques of voice-leading through imitative counterpoint. Compositional exercises modeled after sacred vocal polyphony of the sixteenth century, principally Palestrina and Victoria.
Effective Summer 2014 Effective Spring 2017

MUS 871 Advanced Tonal Counterpoint
Spring of every year. 3(3-0) P: MUS 480 or approval of college P: MUS 869 or approval of college R: Open to graduate students in the College of Music.
Compositional exercises modeled after instrumental polyphony of the eighteenth century, principally J.S. Bach. Influence of fugal technique in the nineteenth and twentieth centuries.
Effective Spring 2014 Effective Spring 2017
MUS 872 Tonal Forms
Fall of every year. Spring of every year. 2(2-0) R: Open to graduate students in the College of Music.
  Music from the period of common practice and its relationship to music composition.
  Interplay of melody, harmony, rhythm, and timbre in various structural units.
  Effective Fall 2007 Effective Spring 2017

MUS 873 Early 20th Century Techniques
Spring of every year. 2(2-0) R: Open to graduate students in the College of Music.
  Melodic, harmonic, rhythmic, and textural devices employed in early twentieth century music.
  Effective Fall 2007 Effective Spring 2017

MUS 874 Schenkerian Analysis
Fall of every year. 2(2-0) P: MUS 869 R: Open to graduate students in the College of Music.
  Thought, works, and influences of Heinrich Schenker. Techniques of linear analysis emphasizing the role of long-range voice-leading musical structure.
  Effective Fall 2007 Effective Spring 2017

MUS 894 Seminar in Musicians' Health and Wellness (D)
Fall of even years. Spring of even years. 1(1-0) A student may earn a maximum of 1 credit in all enrollments for this course. R: Open to graduate students in the College of Music. C: MUS 494 concurrently.
  NEW
  This course is intended for music graduate students in order for them to become competent in critical reading of research and scholarly resources in the area of performing arts. It must be taken in conjunction with Music 494, Musicians' Health and Wellness.
  Effective Spring 2017

MUS 971 Pedagogy of Theory II
Spring of every year. Spring of odd years. 3(3-0) P: MUS 970 R: Open to graduate students in the College of Music.
  Organization, goals, and procedures for teaching second-year and advanced music theory. Includes form, technology, and counterpoint.
  Effective Fall 2014 Effective Spring 2017

MUS 973 Readings in Music Theory
On Demand. 3(3-0) 2(2-0) A student may earn a maximum of 12 credits in all enrollments for this course. A student may earn a maximum of 8 credits in all enrollments for this course. P: MUS 872 or MUS 873 or MUS 869 or MUS 875 or MUS 879 or approval of college R: Open to graduate students in the College of Music.
  Exploration of current research trends in music theory. Critical readings of published articles and books. Formulation of independent research projects culminating in a term paper similar in scope to a conference presentation or article.
  Effective Fall 2016 Effective Spring 2017

MUS 976 Performance and Analysis
Spring of every year. Spring of even years. 3(3-0) P: (MUS 872) or (MUS 875) or (MUS 879) P: (MUS 872) or MUS 875 or MUS 879 RB: Familiarity with the content of graduate level basic tonal theory and form courses. R: Open to graduate students in the College of Music.
  Representative pieces are studied and prepared for performance in class sessions.
  Exploration of how analysis can inform a performer's interpretative decisions and expressive choices.
  Effective Spring 2008 Effective Spring 2017
MUS 977  Schenkerian Analysis II
Spring of every year. Spring of odd years. 3(3-0) P: MUS 874 RB: Strong familiarity with advanced
tonal theory, form, and Schenkerian analysis. R: Open to graduate students in the College of
Music.
Continuation of MUS 874. Analysis of complete compositions or movements from multi-
movement works. Compositions to be studied will include ternary and sonata-form pieces.
Repertoire of styles will range from Baroque to Romantic. Making voice-leading graphs to
become more familiar with Schenker’s writings and the secondary literature.
Effective Spring 2009 Effective Spring 2017

MUS 978  Seminar in 20th- and 21st-Century Music Theory and Analysis
Spring of every year. Spring of even years. 3(3-0) P: MUS 873 R: Open to graduate students in the
College of Music.
Study of theories and analytical techniques for post-1900 music.
Effective Spring 2008 Effective Spring 2017