PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

1. Request to change the requirements for the Master of Science degree in Agricultural, Food and Resource Economics in the Department of Agricultural, Food, and Resource Economics. The University Committee on Graduate Studies (UCGS) will consider this request at its March 15, 2021 meeting.

   a. Add the following Guidance Committee section:

   New students are assigned a temporary major professor by the Graduate Program Director, in consultation with the student and faculty member. The student is responsible for assembling a long-term major professor and guidance committee via consultation with faculty and, if desired, the Graduate Program Director. Students must have a major professor and guidance committee by the end of their second semester. The guidance committee consists of three or more Michigan State University regular faculty members. A majority of the guidance committee members must have appointments in the Department of Agricultural, Food, and Resource Economics.

   Effective Fall 2021.

2. Request to change the requirements for the Doctor of Philosophy degree in Agricultural, Food and Resource Economics in the Department of Agricultural, Food, and Resource Economics. The University Committee on Graduate Studies (UCGS) will consider this request at its March 15, 2021 meeting.

   a. Replace the Guidance Committee section with the following:

   New students are assigned a temporary major professor by the Graduate Program Director, in consultation with the student and faculty member. The student is responsible for assembling a long-term major professor and guidance committee via consultation with faculty and, if desired, the Graduate Program Director. Students must have a major professor and guidance committee by the end of their third semester. The guidance committee consists of four or more Michigan State University regular faculty members. A majority of the guidance committee members must have appointments in the Department of Agricultural, Food, and Resource Economics.

   Effective Fall 2021.

3. Request to change the requirements for the Bachelor of Science degree in Construction Management in the School of Planning, Design and Construction to the following. The University Committee on Undergraduate Education (UCUE) will consider this request.

   a. Under the heading Admission as a Junior make the following changes:

   (1) Replace the first paragraph with the following:

   Construction management builds upon a basic understanding of mathematics, physics, statistics, and economics to develop the skills necessary to manage construction projects. Prior to enrollment in the major, students must have demonstrated this basic understanding by a minimum performance in the courses listed and a minimum grade point average of 3.00 in all CMP courses required for the major.

   (2) Replace item 3. with the following:

   Have a grade-point average of 3.00 in the CMP courses listed in item 2.
(3) Replace paragraph three with the following:

While meeting all of the criteria above is necessary to be considered for admission to the Bachelor of Science Degree in Construction Management, it does not guarantee admission. Other factors such as MSU grade-point average, construction management grade-point average, work experience, personal experience, and diversity may also be considered.

b. Under the heading **Requirements for the Bachelor of Science Degree in Construction Management** make the following changes:

(1) In item 1., replace paragraphs three and four with the following:

Students who are enrolled in the Construction Management major leading to the Bachelor of Science degree may complete an alternative to track to Integrative Studies in Physical Sciences that consists of Physics 231. The completion of Physics 251 satisfies one credit towards the laboratory requirement. With advisor approval, the second required laboratory credit may be satisfied if the student completes a chemistry laboratory course or a physics laboratory course beyond Physics 251.

Physics 231 and 251 may be counted toward both the alternative track and the requirements for the major referenced in item 3. below.

(2) In item 2., delete the first sentence of paragraph two:

Certain courses referenced in requirement 3. below may be counted toward College requirements as appropriate.

(3) In item 3. a. change the total credits from ‘61’ to ‘64’ and add the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 325</td>
<td>Management Skills and Processes</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMP 445</td>
<td>Green and Energy Efficient Building Construction</td>
</tr>
<tr>
<td>CMP 493</td>
<td>Professional Internship in Construction Management</td>
</tr>
</tbody>
</table>

(5) In item 3. c. change the note to the following:

Students must have a minimum grade-point of 2.0 in each of the following courses: CMP 401, 415, and 423.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 230</td>
<td>Site Construction Materials and Methods</td>
</tr>
<tr>
<td>PDC 431</td>
<td>Special Topics in Planning, Design and Construction</td>
</tr>
</tbody>
</table>

Add the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 230</td>
<td>Site Construction Materials and Methods</td>
</tr>
</tbody>
</table>

(7) In item 3. d., change the requirement to ‘One of the following courses with a minimum grade-point of 2.0 in each course’.

(8) Delete item 3. i.

Effective Fall 2021.
COLLEGE OF SOCIAL SCIENCE

1. Request to change the requirements for the Bachelor of Science degree in Anthropology Department of Anthropology.
   a. Under the heading Requirements for the Bachelor of Science Degree in Anthropology make the following changes:
      (1) In item 3., change the total credits from ‘30’ to ‘33’.
      (2) Delete items 3. b. through 3. g. and replace with the following:

        b. One of the following area courses (3 credits):
           ANP 410 Anthropology of Latin America 3
           ANP 411 North American Indian Ethnography 3
           ANP 415 China: Culture and Society 3
           ANP 417 Introduction to Islam in Africa 3
           ANP 419 Anthropology of the Middle East 3
           ANP 432 American Indian Women 3
           ANP 433 Contemporary American Indian Communities 3
           ANP 437 Asian Emigrant Communities: A Global Perspective 3
           ANP 452 North American Archaeology 3
           ANP 455 Archaeology of Ancient Egypt 3

        c. One of the following topical/analytical courses (3 credits):
           ANP 310 Archeology of Human Migrations 3
           ANP 320 Social and Cultural Theory 3
           ANP 321 Anthropology of Social Movements 3
           ANP 325 Anthropology of the Environment and Development 3
           ANP 330 Race, Ethnicity, and Nation: Anthropological Approaches to Collective Identity 3
           ANP 362 Archaeology of Foragers to Farmers 3
           ANP 363 Rise of Civilization 3
           ANP 364 Pseudoarchaeology 3
           ANP 370 Culture, Health, and Illness 3
           ANP 420 Language and Culture 3
           ANP 422 Religion and Culture 3
           ANP 425 Issues in Medical Anthropology 3
           ANP 426 Urban Anthropology 3
           ANP 436 Globalization and Justice: Issues in Political and Legal Anthropology 3
           ANP 439 Human Rights: Anthropological Perspectives 3
           ANP 440 Hominid Fossils 3
           ANP 441 Osteology and Forensic Anthropology 4
           ANP 443 Human Adaptability 3
           ANP 461 Method and Theory in Historical Archaeology 3
           ANP 486 Environmental Archaeology 3

        d. One of the following anthropological methods courses (3 credits):
           ANP 412 Method and Practice in Digital Heritage 3
           ANP 429 Ethnographic Field Methods 4
           ANP 441 Osteology and Forensic Anthropology 4
           ANP 463 Laboratory Methods in Archaeology 3
           ANP 464 Field Methods in Archaeology 2 to 6

        e. Complete 12 credits of Anthropology courses, at least 9 credits of which must at the 300-level or above. ANP 101 or 200 may not be used to fulfill this requirement.

      (3) Add the following item 4.:

      Other Required Courses (12 credits):
      Complete a 12 credits in Science, Technology, Engineering, and Mathematics (STEM) courses from the following list of courses: Fulfillment of this requirement also meets the
College of Social Science STEM Graduation Requirement for the Bachelor of Science degree and may not concurrently satisfy a University requirement.

a. One of the following courses (3 or 4 credits):
   - STT 200 Statistical Methods 3
   - STT 201 Statistical Methods 3
   - STT 315 Introduction to Probability and Statistics for Business 3
   - STT 421 Statistics I 3
   - STT 464 Statistics for Biologists 3

b. Complete at least 9 credits from the following courses:
   - ANTR 211 Human Tissues and Cells for Medical Illustrators 3
   - ANTR 350 Human Gross Anatomy for Pre-Health Professionals 3
   - ANTR 355 Human Gross Anatomy Laboratory 1
   - ANTR 440 Human Anatomic Variation 2
   - BMB 200 Introduction to Biochemistry 4
   - BMB 400 Introduction to Bioinformatics 3
   - BMB 401 Comprehensive Biochemistry 4
   - BS 161 Cell and Molecular Biology 3
   - BS 162 Organismal and Population Biology 3
   - BS 171 Cell and Molecular Biology Laboratory 2
   - BS 172 Organismal and Population Biology Laboratory 2
   - CEM 141 General Chemistry 4
   - CEM 142 General and Inorganic Chemistry 3
   - CEM 143 Survey of Organic Chemistry 4
   - CEM 151 General and Descriptive Chemistry 4
   - CEM 152 Principles of Chemistry 3
   - CEM 161 Chemistry Laboratory I 1
   - CEM 162 Chemistry Laboratory 1
   - CEM 251 Organic Chemistry I 3
   - CEM 252 Organic Chemistry II 3
   - CMSE 180 Introduction to Data Science 4
   - CMSE 201 Computational Modeling and Data Analysis I 4
   - CMSE 202 Computational Modeling and Data Analysis II 4
   - ENT 404 Fundamentals of Entomology 3
   - ENT 460 Medical Entomology 3
   - ENT 461 Field Ecology of Disease Vectors 3
   - EPI 280 Applied Analytical Methods of Health Studies I 3
   - EPI 380 Applied Analytical Methods of Health Studies II 3
   - EPI 390 Disease in Society: Introduction to Epidemiology and Public Health 4
   - EPI 465 Bayesian Statistical Methods 3
   - EPI 490 Advanced Topics/Methods in Global Public Health and Epidemiology 3
   - FOR 419 Applications of Geographic Information Systems to Natural Resources Management 4
   - FW 110 Conservation and Management of Marine Resources 3
   - FW 471 Ichthyology 4
   - FW 472 Limnology 3
   - GEO 201 Introduction to Plant Geography 3
   - GEO 206 Physical Geography 3
   - GEO 206L Physical Geography Laboratory 1
   - GEO 221 Introduction to Geographic Information Laboratory 3
   - GEO 221L Introduction to Geographic Information Laboratory 1
   - GEO 302 Climates of the World 3
   - GEO 306 Environmental Geomorphology 3
   - GEO 324 Remote Sensing of the Environment 4
   - GEO 325 Geographic Information Systems 3
GEO 425 Problems in Geographic Information Science (W) 3
GLG 201 The Dynamic Earth 4
GLG 202 Geology of Michigan 3
GLG 303 Oceanography 3
GLG 304 Physical and Biological History of the Earth 4
GLG 306 Environmental Geomorphology 3
GLG 321 Mineralogy and Geochemistry 4
GLG 361 Igneous and Metamorphic Geochemistry and Petrology 4
GLG 401 Global Tectonics and Earth Structure (W) 4
GLG 411 Hydrogeology 3
GLG 412 Glacial Geology and the Record of Climate Change 4
GLG 421 Environmental Geochemistry 4
GLG 431 Sedimentology and Stratigraphy 4
GLG 433 Vertebrate Paleontology 4
GLG 434 Evolutionary Paleobiology 4
GLG 446 Ecosystems Modeling, Water and Food Security 3
GLG 471 Applied Geophysics 4
IBIO 150 Integrating Biology: From DNA to Populations 3
IBIO 306 Invertebrate Biology 4
IBIO 313 Animal Behavior 3
IBIO 328 Comparative Anatomy and Biology of Vertebrates 4
IBIO 341 Fundamental Genetics 4
IBIO 353 Marine Biology (W) 4
IBIO 355 Ecology 3
IBIO 355L Ecology Laboratory (W) 1
IBIO 357 Global Change Biology (W) 3
IBIO 360 Biology of Birds 4
IBIO 365 Biology of Mammals 4
IBIO 384 Biology of Amphibians and Reptiles (W) 4
IBIO 445 Evolution (W) 3
IBIO 446 Environmental Issues and Public Policy 3
MMG 141 Introductory Human Genetics 3
MMG 365 Medical Microbiology 3
MMG 365L Medical Microbiology Laboratory 1
MMG 400 Introduction to Bioinformatics 3
MMG 404 Human Genetics 3
PLB 105 Plant Biology 3
PLB 106 Plant Biology Laboratory 1
PLB 203 Biology of Plants 4
PLB 400 Introduction to Bioinformatics 3
STT 224 Introduction to Probability and Statistics for Ecologists 3
STT 231 Statistics for Scientists 3
STT 301 Computational Methods for Data Science 3
STT 351 Probability and Statistics for Engineering 3
STT 422 Statistics II 3
STT 430 Introduction to Probability and Statistics 3
STT 461 Computations in Probability and Statistics 3

Effective Fall 2021.
2. Request to establish a **Master of Science** degree in **Cybercrime and Digital Investigation** in the School of Criminal Justice. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its February 8, 2021 meeting.

   a. **Background Information:**

   During the 2019/2020 academic year, the School of Criminal Justice submitted a certificate program request that could be taken by students in their online law enforcement and intelligence analysis and masters criminal justice degrees. The School argued that it wanted to expand that certificate into a full degree within one year, all of which would fall under the category of RBI based on the complete online format and nesting within the existing online degree platform.

   Cybercrime is a form of transnational crime and is currently the top national security threat. According to the United Nations, cybercrime affects more than 431 million adult victims globally. Specific types of crime include computer hacking, digital piracy, electronic fraud and theft, and sexual victimization. Identity-related offenses are both the most common and fastest growing forms of consumer fraud on the Internet, especially through the misuse of credit card information. While teaching citizens techniques for safe online behavior and digital privacy can curb some cybercrime, the immediate need for professionals trained to address the threats posed by cybercrime through enhanced cyber security investigations is quite evident. Additionally, terrorists, extremists, and ideologically motivated actors of all stripes utilize the Internet and associated technologies to affect nations and citizens alike. Nation-states have also harnessed the power of technology to attack their rivals, whether through the theft of intellectual property via hacking to gain economic advantage or harm their power grids. Cyber security related job postings grew 114% between 2011 to 2015, according to Burning Glass Technologies. A 2012 Bureau of Labor Statistics report also projected the field to grow by 22% over the next ten years, with as many as 120,000 new jobs created in this sector. Most entry-level positions require a bachelor’s degree at a minimum, and colleges are only meeting 24 percent of the entry-level demand. The certificate program has already begun as of Fall 2020, and the initial course offering is filled to capacity.

   Cybercrime is a major area of focus for the School of Criminal Justice (SCJ) and peer institutions in the Big 10, with 5 of the Big 10 institutions (e.g., Illinois, Maryland, Indiana, Ohio State, and Minnesota) having associated institutes or regularly holding summits on cybercrime. The SCJ is one of two (University of Maryland) top 10 Ph.D. granting programs in criminology/criminal justice within the United States that offers courses for graduate students to specialize in cybercrime research through innovative course content and the ability to structure cognate courses across the campus. No criminal justice programs at AAU institutions offer a cybersecurity specialization. Within the Computer Science and Engineering degree programs, a few offer a specialization in e-crime, but it is largely focused on digital forensic training (e.g. University of Albany, USF). SCJ can differentiate itself through a focused certificate on cybercrime/cybersecurity with five specialized courses at the graduate (master’s) degree level and launch a Master of Science degree in Cybercrime and Digital Investigation.

   b. **Academic Programs Catalog Text:**

   The Master of Science degree in Cybercrime and Digital Investigation prepares students for successful careers related to the investigation of or response to cybercrime in both the public sector (law enforcement, government) and private industry. Students gain an understanding of the diverse nature of cybercrime threats that affect individuals and organizations’ economic and physical safety. They also will recognize the risks posed by nation-states and terrorist organizations in online spaces, whether to intellectual property, economic operations, or national security and be capable of assessing these threats, understanding their impact to various individual and organization targets, the limits of current legal and cybersecurity policy and practice, and clearly communicate these concerns to diverse audiences.

   In addition to meeting the requirements of the university and the College of Social Science, students must meet the requirements specified below.

   **Admission**

   To be considered for admission to the Master of Science degree in Cybercrime and Digital Investigation students must:

   1. have a bachelor’s degree from a recognized educational institution, including a background of education, occupational experience appropriate to the successful pursuit of
graduate study, and evidence of personal traits and characteristics considered important for scholarly performance.

2. have at least 12 credits of undergraduate course work in political science, economics, sociology, psychology, anthropology, history, social work, or any combination thereof. At least 6 of these credits must be in sociology, psychology, social work, or any combination of such courses.

3. have a cumulative undergraduate grade-point average of at least 3.20 or higher.

4. have satisfactory scores on the Graduate Record Examination General Test. The GRE exam is waived for candidates with a cumulative undergraduate grade-point average of 3.2 or higher from an accredited and recognized institution, and for applicants with a completed graduate degree.

Students who have deficiencies for regular admission to the program may be admitted provisionally. These deficiencies may require additional course work to make up the deficiencies. This course work will not count towards the requirements for the degree. Occupational experience is highly desirable before pursuing graduate study in some fields of criminal justice.

Requirements for the Master of Science Degree in Cybercrime and Digital Investigation

At least 30 credits are required for the degree under Plan B (without thesis). The students program of study is planned and approved in consultation with their advisor. The program is available only online.

CREDITS

1. All of the following courses (18 credits):
   
   - CJ 801 Crime Causation, prevention and Control 3
   - CJ 811 Design and Analysis in Criminal Justice Research 3
   - CJ 874 Cybercrime, Deviance and Virtual Society 3
   - CJ 877 Cyber Terror and Cyber Warfare 3
   - CJ 881 Legislative and Policy Responses to Cybercrime 3
   - CJ 882 Analysis of Contemporary Cyberthreats 3

2. Complete 12 credits from the following:
   
   - CJ 822 Comparative Criminal Justice 3
   - CJ 823 Globalization of Crime 3
   - CJ 872 Open Source Information Analysis 3
   - CJ 875 Digital Forensic Investigations 3
   - CJ 876 Data Systems/Infrastructure 3
   - CJ 878 Economic Cybercrimes and Fraud 3
   - CJ 879 Interpersonal Cybercrime 3

3. Completion of a final oral examination or evaluation.

Effective Fall 2021.

4. Request to change the requirements for the Disciplinary Teaching Minor available for secondary certification in Economics in the Department of Economics. The Teacher Education Council (TEC) will consider this request at its March 15, 2021 meeting.

a. Under the heading Economics make the following changes:

   (1) Change the total credits from ‘21’ to ‘22’.

   (2) Add the following course:

   - TE 503 Internship in Teaching Diverse Learners in Additional Endorsement Areas 1

Effective Fall 2021.
5. Request to change the requirements for the **Disciplinary Teaching Minor** available for secondary certification in **Geography** in the Department of Geography, Environment, and Spatial Sciences. The Teacher Education Council (TEC) will consider this request at its March 15, 2021 meeting.

   a. Under the heading **Geography** replace the entire entry with the following:

   (Available only to students pursuing a major in comparative cultures and politics, international relations, political theory and constitutional democracy, social relations and policy, interdisciplinary studies in social science, interdisciplinary studies in social science: social science education, or history with a teacher certification option)

   1. All of the following courses (11 credits):
      
      - GEO 204 World Regional Geography    3
      - GEO 206 Physical Geography    3
      - GEO 206L Physical Geography Laboratory    1
      - GEO 221 Introduction to Geographic Information    3
      - TE 503 Internship in Teaching Diverse Learners in Additional Endorsement Areas    1

   2. Two of the following courses (6 credits):
      
      - GEO 330 Geography of the United States    3
      - GEO 331 Geography of Canada    3
      - GEO 333 Geography of Michigan and the Great Lakes Region    3

   3. One of the following courses (3 credits):
      
      - GEO 113 Introduction to Economics Geography    3
      - GEO 151 Introduction to Human Geography    3

   4. One additional course in Geography at the 300 or 400 level    3 to 4

   Students enrolled in the disciplinary teaching minor in geography must have their programs approved by the department.

   Effective Fall 2021.

6. Request to change the requirements for the **Disciplinary Teaching Minor** available for secondary certification in **History** in the Department of History. The Teacher Education Council (TEC) will consider this request at its March 15, 2021 meeting.

   a. Under the heading **History** make the following changes:

   (1) Change the total credits from ‘31’ to ‘33’.

   (2) Add the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 409</td>
<td>Crafting Teaching Practices in the Secondary Teaching Minor</td>
<td>1</td>
</tr>
<tr>
<td>TE 503</td>
<td>Internship in Teaching Diverse Learners in Additional Endorsement Areas</td>
<td>1</td>
</tr>
</tbody>
</table>

   Effective Fall 2021.
7. Request to change the requirements for the Disciplinary Teaching Minor available for secondary certification in Political Science in the Department of Political Science. The Teacher Education Council (TEC) will consider this request at its March 15, 2021 meeting.

   a. Under the heading Political Science make the following changes:

   (1) Change the total credits from ‘21 or 22’ to ‘22 or 23’.

   (2) In the list of required courses, add the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 503</td>
<td>Internship in Teaching Diverse Learners in Additional</td>
<td>1</td>
</tr>
<tr>
<td>Endorsement Areas</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   (3) In the list of electives, delete the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLS 323</td>
<td>Religion and Politics</td>
<td>4</td>
</tr>
<tr>
<td>PLS 331</td>
<td>Political Parties and Interest Groups</td>
<td>3</td>
</tr>
</tbody>
</table>

Effective Fall 2021.

8. Request to change the requirements for the Disciplinary Teaching Minor available for secondary certification in Psychology in the Department of Psychology. The Teacher Education Council (TEC) will consider this request at its March 15, 2021 meeting.

   a. Under the heading Psychology replace the entire entry with the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>Introductory Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 200</td>
<td>Cognitive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 209</td>
<td>Brain and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSY 235</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 238</td>
<td>Developmental Psychology: Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>PSY 280</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 295</td>
<td>Data Analysis in Psychological Research</td>
<td>3</td>
</tr>
<tr>
<td>PSY 424</td>
<td>Child and Family Psychopathology (W)</td>
<td>3</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 444</td>
<td>Developmental Psychology: Adolescence Through Youth (W)</td>
<td>3</td>
</tr>
<tr>
<td>TE 409</td>
<td>Crafting Teaching Practices in the Secondary Teaching Minor</td>
<td>1</td>
</tr>
<tr>
<td>TE 503</td>
<td>Internship in Teaching Diverse Learners in Additional</td>
<td>1</td>
</tr>
<tr>
<td>Endorsement Areas</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Effective Fall 2021.
PART II - NEW COURSES AND CHANGES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

CMP 210  Commercial Construction Methods
Fall of every year. 3(3-0)  P: CMP 124 or concurrently  P: CMP 124  R: Open to freshmen or sophomores or juniors in the Construction Management Major or approval of department.  C: CMP 211 concurrently.
SA: BCM 210
Effective Summer 2013 Effective Fall 2021

CMP 222  Statics and Strengths of Materials
Fall of every year. Spring of every year. 3(3-0)  P: (CMP 210 and CMP 211) and (MTH 124 or MTH 132 or LB 118) and (PHY 183 or PHY 231)  P: (CMP 210 and CMP 124) and (MTH 124 or MTH 132 or LB 118) and (PHY 183 or PHY 231 or PHY 231C)  R: Not open to seniors. Not open to students with credit in CE 221.
SA: BCM 222
Effective Fall 2014 Effective Fall 2021

CMP 230  Utility Systems
Spring of every year. 4(4-0)  P: (CMP 210) and (MTH 124 or MTH 132 or LB 118) and (PHY 183 or PHY 231)  P: (CMP 210 and CMP 124) and (MTH 124 or MTH 132 or LB 118) and (PHY 183 or PHY 231 or PHY 231C)  R: Not open to seniors.
Design and analysis of utility and environmental systems in residential and commercial construction with a focus on mechanical, electrical, and plumbing systems
SA: BCM 230
Effective Fall 2019 Effective Fall 2021

CMP 245  Principles of Green Building
Spring of every year. 3(3-0)  P: CMP 210 and (CMP 230 or concurrently)  P: CMP 210 and (CMP 230 or concurrently) and CMP 124  R: Not open to seniors.
Origins of green building in the U.S. Codes, regulations, and standards governing green building practice. The whole building concept and airflow, thermal, and moisture movement in buildings. Sustainable building systems and modern green construction practices.
Effective Spring 2020 Effective Fall 2021

CMP 305  Site Construction and Measurement
Fall of every year. 3(2-2)  P: CMP 210  R: Open to juniors or seniors in the Construction Management Major.
Site construction methods, materials and equipment for buildings, soil, foundation, erosion, and storm water. Layout, leveling, surveying, and underground utilities. Site construction methods, materials and equipment for soils, foundations, foundation types, erosion and storm water control. Site layout, leveling, elevations, and underground utilities.
SA: BCM 305
Effective Summer 2013 Effective Fall 2021

CMP 315  Construction Quantity Surveying
Spring of every year. 3(2-2)  P: CMP 305 and (CSE 101 or CSE 131 or CSE 231 or CSS 110)  P: CMP 305 and CMP 322  R: Open to juniors or seniors in the Construction Management Major or in the Civil Engineering Major or approval of school.
SA: BCM 315
Effective Summer 2013 Effective Fall 2021
PART II - NEW COURSES AND CHANGES – continued - 11
April 1, 2021

CMP 401  Construction Safety Management
Fall of every year. 3(3-0) P: CMP 305 RB: CMP 385 or (CMP 423 or concurrently) R: Open to juniors or seniors in the Construction Management Major or in the Civil Engineering Major or approval of department.
   Construction safety with Occupational Safety and Health Administration (OSHA) emphasis. General safety and health provisions, records, and safety management programs. Personnel protection and lifesaving equipment. Economic impact of safety program.
   SA: BCM 401
   Effective Fall 2017 Effective Fall 2021

CMP 435  Residential Building and Development Projects (W)
Fall of every year. 3(1-4) P: {{ACC 201 and ACC 202} or ACC 230} and ((CMP 423 or concurrently) and completion of Tier I writing requirement) P: ACC 230 and CMP 245 and CMP 325 and CMP 328 and (CMP 401 or concurrently) R: Open to seniors in the Construction Management Major.
   Working in teams, applying skills of construction project management to develop a residential project and business plan that addresses preconstruction, construction, and marketing areas
   SA: BCM 435
   Effective Spring 2020 Effective Fall 2021

CMP 491  Special Topics in Construction Management
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open to undergraduate students in the Construction Management Major. Approval of department.
   Topics such as computer methods in construction management, construction technology, solar energy, special land use codes, or new technology management.
   SA: BCM 491
   Effective Fall 2014 Effective Summer 2021

COLLEGE OF SOCIAL SCIENCE

ANP 364  Pseudoarchaeology
Fake Archaeology: Pseudoscience and the Past
Fall of odd years. 3(3-0)
   Critical survey and discussion of pseudoarchaeological and pseudoscientific ideas about archaeology, archaeologists, and the human past.
   Effective Fall 2014 Effective Spring 2021

ANP 850  Principles of Archaeological Analysis
Principles of Archaeological Research Design
Spring of odd years. 3(3-0) RB: (GEO 465) or approval of instructor. RB: approval of instructor. R: Open only to graduate students. R: Open to graduate students.
   Formal, spatial, and temporal dimensions of archaeological research design. Appropriate analytic techniques.
   Effective Fall 1995 Effective Spring 2021

CJ 871  Advanced Crime Analysis
Spring of every year. 3(3-0) P: CJ 870 or approval of school
   Advanced application of intelligence and crime analysis skills and techniques.
   Effective Fall 2019 Effective Fall 2021

HDFS 449L  Children with Special Needs and Their Families Laboratory
NEW
   Supervised practice in learning activities for individual children and groups.
   Effective Fall 2022