GENERAL EDUCATION AND COLLEGE REQUIREMENTS

Courses for fulfillment of General Education and college requirements must be from the approved General Education course list at http://www.westernok.edu/content/gened/courses.html.

UNIVERSITY-WIDE GENERAL EDUCATION (MINIMUM 40 HOURS) AND COLLEGE REQUIREMENTS

Courses graded P/NP will not apply.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1113</td>
<td>Principles of English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1213</td>
<td>Principles of English Composition</td>
<td>3</td>
</tr>
<tr>
<td>or EXPO 1213</td>
<td>Expository Writing</td>
<td></td>
</tr>
<tr>
<td>CHEM 1315</td>
<td>General Chemistry (Science with Lab)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2514</td>
<td>General Physics for Engineering and Science Majors</td>
<td>4</td>
</tr>
<tr>
<td>PSC 1113</td>
<td>American Federal Government</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1914</td>
<td>Differential and Integral Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Code  II: Natural Science (minimum 7 hours, 2 courses)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1315</td>
<td>General Chemistry (Science with Lab)</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 2514</td>
<td>General Physics for Engineering and Science Majors</td>
<td>4</td>
</tr>
</tbody>
</table>

Core Area III: Social Science (6 hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 1113</td>
<td>American Federal Government</td>
<td>3</td>
</tr>
<tr>
<td>Choose one course from the General Education Social Science list</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Core Area IV: Humanities

Understanding Artistic Forms (3 hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one course from the General Education Artistic Forms list.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Western Civilization and Culture (6 hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1483</td>
<td>United States, 1492 to 1865</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 1493</td>
<td>United States, 1865 to the Present</td>
<td></td>
</tr>
<tr>
<td>Choose one course from the General Education Western Civilization &amp; Culture list. (Excluding HIST 1483 and HIST 1493)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Non-Western Culture (3 hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one course from the General Education Non-Western Culture list</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Core Area V: Senior Capstone Experience

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 hours required, fulfilled in Major Requirements</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 40-50

1College of Atmospheric and Geographic Sciences requirements.

At least three hours of Upper-Division General Education coursework must be completed outside the major.

ADDITIONAL COLLEGE BACHELOR OF SCIENCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2924</td>
<td>Differential and Integral Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2524</td>
<td>General Physics for Engineering and Science Majors</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credit Hours 8

1MATH 1823, MATH 2423, and MATH 2433 will also fulfill the college's calculus requirement.

FREE ELECTIVES

Electives to bring total applicable hours to 149.

OU encourages students to complete at least 30 hours of applicable coursework each year to have the opportunity to graduate in 5 years.

UNDERGRADUATE REQUIREMENTS

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 1203</td>
<td>Global Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3233</td>
<td>Principles of Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3443</td>
<td>Environment and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3773</td>
<td>Geography of the United States</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3924</td>
<td>Quantitative Methods</td>
<td>4</td>
</tr>
<tr>
<td>GIS 2023</td>
<td>Introduction to Spatial Thinking and Computer Mapping</td>
<td>3</td>
</tr>
<tr>
<td>GIS 4523</td>
<td>Life Cycle Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4893</td>
<td>Research Methods and Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4953</td>
<td>Capstone</td>
<td>3</td>
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</tbody>
</table>

Planning & Management

Choose a minimum of 12 hours

Computer-Related

Choose 3 hours from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>C S 1213</td>
<td>Programming for Non-Majors with Python</td>
<td>3</td>
</tr>
<tr>
<td>C S 1313</td>
<td>Programming for Non-Majors with C</td>
<td></td>
</tr>
<tr>
<td>METR 1313</td>
<td>Introduction to Programming for Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>MIS 2113</td>
<td>Computer-Based Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 43

MAJOR SUPPORT REQUIREMENTS

- Courses required for major support may not also fulfill University-Wide General Education Requirements.

ADDITIONAL COLLEGE REQUIREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper-Division Science Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choose a minimum of 15 hours of 3000-4000-level courses to be chosen from chemistry, computer science, engineering, geology, geophysics, mathematics, management information systems, meteorology, or physics; or statistics courses from plant biology, microbiology, political science, psychology, or sociology</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 15

SHARED HOURS

These 15 hours of Graduate Credit count towards both the undergraduate and graduate degrees:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5013</td>
<td>Fundamentals of Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>RCPL 5013</td>
<td>History and Theory of Urban Planning</td>
<td>3</td>
</tr>
<tr>
<td>RCPL 5053</td>
<td>Planning Management</td>
<td>3</td>
</tr>
<tr>
<td>RCPL 5203</td>
<td>Urban Land Use Controls</td>
<td>3</td>
</tr>
<tr>
<td>RCPL 5173</td>
<td>Urban and Regional Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 15

MRCP COMPONENT

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RCPL 5113</td>
<td>Urban Planning Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCPL 5525</td>
<td>Comprehensive Regional And City Planning Project</td>
<td>5</td>
</tr>
<tr>
<td>RCPL 5522</td>
<td>Comprehensive RCPL Project: Reporting and Implementation</td>
<td></td>
</tr>
<tr>
<td>&amp; RCPL 5523</td>
<td>Comprehensive RCPL Project: Research and Plan Making</td>
<td></td>
</tr>
</tbody>
</table>

Choose three Specialization courses in either Physical Planning or Community & Economic Development

Choose one course from the opposite track's breadth courses 9

Choose one course from the opposite track's breadth courses 3

REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN ENVIRONMENTAL SUSTAINABILITY/MASTER OF REGIONAL & CITY PLANNING

COLLEGE OF ATMOSPHERIC AND GEOGRAPHIC SCIENCES

THE UNIVERSITY OF OKLAHOMA

Academic Year

For Students Entering the Oklahoma State System for Higher Education

Summer 2019 through Spring 2020

Minimum Total Credit Hours ......................................... 149
Minimum Upper-Division Hours ....................................... 40
Minimum Retention/Graduation Grade Point Averages: Overall - Combined and OU ................................................. 2.25

Major - Combined and OU ............................................. 2.25

Program

Environmental Sustainability: Planning & Management

A410 P516/F817 Q229

Bachelor of Science in Environmental Sustainability/Master of Regional & City Planning
Choose three Graduate-level RCPL Electives, chosen in consultation with Graduate advisor.

Total Credit Hours: 29

INFORMATION CONCERNING GENERAL RULES, REGULATIONS AND MINIMUM REQUIREMENTS FOR UNDERGRADUATE DEGREES

Total Hours: A minimum of 120 semester hours acceptable toward graduation must be completed.

Upper-Division Hours: A minimum of 45 upper-division semester hours acceptable toward graduation must be completed. OU courses numbered 3000 or above are upper-division. Transfer work is counted as lower-division or upper-division credit depending on the level at which it was offered at the institution where it was earned. Two-year college work is accepted only as lower-division credit.

Senior Institution Hours: A minimum of 60 semester hours applied toward graduation must be earned at senior (4-year) institutions.

Residency:
- A minimum of two semesters must be spent in residence in the College of Atmospheric and Geographic Sciences.
- At least 36 of the last 48 hours must be completed in residence at OU.

Individual Studies: No more than six hours of independent study or directed readings may be applied toward degree requirements.

Grade Point Averages:
- Individual Studies:
- Residency:
- Senior Institution Hours:
- Upper-Division Hours:

Total Hours acceptable toward graduation must be completed.

A minimum of 120 semester hours acceptable toward graduation must be completed.

A minimum of 40 upper-division semester hours acceptable toward graduation must be completed. OU courses numbered 3000 or above are upper-division. Transfer work is counted as lower-division or upper-division credit depending on the level at which it was offered at the institution where it was earned. Two-year college work is accepted only as lower-division credit.

Suggested Semester Plan of Study

This plan shows one possible grouping of courses that would allow students to graduate in four years. Please refer to the front of the degree checksheet for official requirements. Students must consult with College of Atmospheric and Geographic Sciences and/or Department of Geography academic advisors to verify that courses selected each semester fulfill the recommended plan and satisfy university, College of Atmospheric & Geographic Sciences, and Environmental Sustainability major requirements.

<table>
<thead>
<tr>
<th>Year</th>
<th>First Semester</th>
<th>Hours</th>
<th>Second Semester</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>ENGL 1113 Principles of English Composition (Core I)</td>
<td>3</td>
<td>ENGL 1213 Principles of English Composition (Core I) or Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 1483 United States, 1492 to 1865 (Core IV) or United States, 1865 to the Present</td>
<td>3</td>
<td>PSC 1113 American Federal Government (Core III)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 1914 Differential and Integral Calculus I (Core I)</td>
<td>4</td>
<td>MATH 2924 Differential and Integral Calculus II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEOG 1203 Global Environmental Issues</td>
<td>3</td>
<td>CHEM 1315 General Chemistry (Core II)</td>
<td>5</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Free Elective</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CREDIT HOURS</td>
<td>15</td>
<td>CREDIT HOURS</td>
<td>15</td>
</tr>
<tr>
<td>Sophomore</td>
<td>GIS 2023 Introduction to Spatial Thinking and Computer Mapping</td>
<td>3</td>
<td>GEOG 3924 Quantitative Methods</td>
<td>4</td>
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<tr>
<td></td>
<td>PHYS 2514 General Physics for Engineering and Science Majors</td>
<td>4</td>
<td>General Physics for Engineering and Science Majors</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>General Education Western Civilization &amp; Culture (Core IV)</td>
<td>3</td>
<td>Planning &amp; Management Concentration course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Planning &amp; Management Concentration course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Free Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CREDIT HOURS</td>
<td>16</td>
<td>CREDIT HOURS</td>
<td>17</td>
</tr>
<tr>
<td>Junior</td>
<td>GEOG 3233 Principles of Sustainability</td>
<td>3</td>
<td>GEOG 3443 Environment and Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GIS 5013 Fundamentals of Geographic Information Systems</td>
<td>3</td>
<td>GEOG 4523 Life Cycle Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Upper Division Science Elective</td>
<td>3</td>
<td>RCPL 5203 Urban Land Use Controls</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Upper Division Science Elective</td>
<td>3</td>
<td>Upper Division Science Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Planning &amp; Management Concentration course</td>
<td>3</td>
<td>Upper Division Science Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Free Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CREDIT HOURS</td>
<td>15</td>
<td>CREDIT HOURS</td>
<td>15</td>
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<tr>
<td>Senior</td>
<td>GEOG 3773 Geography of the United States</td>
<td>3</td>
<td>GEOG 4953 Capstone</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOG 4893 Research Methods and Professional Development</td>
<td>3</td>
<td>RCPL 5173 Urban and Regional Analysis</td>
<td>3</td>
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<tr>
<td></td>
<td>RCPL 5013 History and Theory of Urban Planning</td>
<td>3</td>
<td>Upper Division Science Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>RCPL 5113 Urban Planning Research Methods</td>
<td>3</td>
<td>Breadth course in selected RCPL specialization</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Planning &amp; Management Concentration course</td>
<td>3</td>
<td>Planning &amp; Management Concentration course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>General Education Non-Western Culture (Core IV)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Free Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CREDIT HOURS</td>
<td>18</td>
<td>CREDIT HOURS</td>
<td>12</td>
</tr>
<tr>
<td>Senior Year</td>
<td>RCPL 5525 Comprehensive Regional And City Planning Project</td>
<td>3-5</td>
<td>RCPL 5053 Planning Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>RCPL 5523 Comprehensive RCPL Project: Research and Plan Making</td>
<td>3</td>
<td>RCPL specialization elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Breadth course in selected RCPL specialization</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Breadth course in non-selected specialization</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Choose the following if RCPL 5523 taken in the Fall:</td>
<td>0-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RCPL specialization elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Comprehensive RCPL Project: Reporting and Implementation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CREDIT HOURS</td>
<td>14</td>
<td>CREDIT HOURS</td>
<td>12</td>
</tr>
</tbody>
</table>

1. To be chosen from the University-Wide General Education Approved Course List. Three hours of general education must be upper-division outside the major.
2. A minimum of 12 hours, to be chosen from the following concentration, with no more than two courses from one department:
   - Planning and Management: NPNG 3033, NPNG 4033; CEES 4603; ECIN 3213; GEOG 4200, GEOG 4333, GEOG 4343, GEOG 4583; GEOG 4003/RCPL 4003; METR 4553; MKT 3013; MKT 3223/SCM 3223; PSC 3213, PSC 4193; RCPL 4663; SOC 3643.
3. These courses are shared between the undergraduate and graduate degrees.
4. In addition to taking RCPL 5522 in the Spring.
A minimum of 12 hours of Planning & Management coursework is required in the undergraduate major, to be chosen from the following courses or other advisor-approved courses, with no more than two courses from one department.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEES 4603</td>
<td>Global Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3213</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4200</td>
<td>Internship in Geography</td>
<td>1-6</td>
</tr>
<tr>
<td>GEOG 4333</td>
<td>Corporate Environmental Strategy</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4343</td>
<td>Climate, History, and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4583</td>
<td>Energy Systems and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/RCPL 4003</td>
<td>The Global City and Planning Issues</td>
<td>3</td>
</tr>
<tr>
<td>METR 4553</td>
<td>Climate and Renewable Energy</td>
<td>3</td>
</tr>
<tr>
<td>MKT 3013</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT/SCM 3223</td>
<td>Logistics Management</td>
<td>3</td>
</tr>
<tr>
<td>NPNG 3033</td>
<td>Fundamentals of Nonprofit Management II</td>
<td>3</td>
</tr>
<tr>
<td>NPNG 4033</td>
<td>Leadership &amp; Planning</td>
<td>3</td>
</tr>
<tr>
<td>P SC 3213</td>
<td>Law, Politics, and Society</td>
<td>3</td>
</tr>
<tr>
<td>P SC 4193</td>
<td>The Profession of Public Management</td>
<td>3</td>
</tr>
<tr>
<td>RCPL 4863</td>
<td>Environmental Assessment Methodologies</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3643</td>
<td>Population and Society</td>
<td>3</td>
</tr>
</tbody>
</table>