This course proposal form should be completed when introducing a new course or a revision of an existing course. The proposal will be reviewed by the Committee on Curriculum, or, in the case of minor revisions, will be approved administratively by the Associate Provost for Instruction.

This Course Proposal must be completed according to the guidelines provided in Course Proposal Form – Instructions and Guidance. Please see the last page of Course Proposal Form – Instructions and Guidance, for instructions on how this Course Proposal should be submitted to the Committee on Curriculum for review.

Date:

1. Course Information:

1.1 Course Prefix and Number: EST 613
Course Title: Urbanization and the Environment
(If a new or renumbered course, please check with the Registrar regarding the use or reuse of the course number)

1.2 ☒ This is a New Course.
OR
☐ This is a Major Course Revision
OR
☐ This is a Minor Course Revision

If this is a Course Revision, please see Course Proposal Form – Instructions and Guidance to determine if your revision is major or minor. Indicate below the reason(s) for the revision.

(Please check all that apply)

☐ Course Number/Division ☒ Learning Outcomes ☐ Institutional Resources
☒ Title ☒ Concepts, Content ☐ Semester Offered
☐ Credit hours ☒ Catalog Description ☐ Course Inactivation
☐ Pre- or Co-requisite(s) ☐ Instructional Methods ☐ Course Reactivation
☒ Format ☐ General Education

1.3 General Education knowledge and skills area (if applicable): If none, check here ☐

☐ American History ☐ Humanities ☐ Other World Civilizations
☐ The Arts ☐ Mathematics ☐ Social Sciences
☐ Basic Communication ☐ Natural Sciences ☐ Western Civilization
2. Proposer Need Statement:

2.1 Describe why this course (or course revision) is needed to meet current or proposed goals and outcomes of the program or College, and, if a revision, provide an explanation of and justification for the revision. EST 613 Urbanization and the Environment contributes to the Department of Environmental Studies vision to provide interdisciplinary social science by providing a foundation to addressing fundamental challenges on an urbanizing planet. The course presents different theories and concepts to understand how urbanization processes influence livelihoods and the environment, how cities take on different infrastructural, political, economic, and social forms, and how more sustainable urban systems can be designed. This connects to other goals and outcomes at the College, including the Center for the Urban Environment’s focus on promoting urban sustainability. The course meets the needs of the College by providing an a course on how urban systems are critical components of social-ecological systems.

2.2 List the pre-requisite or co-requisite courses (taught within the home department or taught by another department) and explain their relationship to the proposed course. N/A

2.3 Explain the impact of this course in meeting the goals and outcomes of other Departments/programs (if any). N/A

2.4 If the proposed course is designed to fulfill SUNY General Education Requirements, the Associate Provost for Instruction must review this proposal to ensure that General Education Requirements will be met for the specified knowledge area (See Instructions and Guidance). Please provide an explanation of how this course fulfills SUNY General Education Requirements. N/A

2.5 What are the staffing requirements (instructor, TA, Lab tech, etc.) for this course? If a new course, are there new staffing needs or are there adequate staff members already in place? If a revised course, are there additional staffing needs? Staffing includes one instructor with expertise in the course content.

2.6 What Department (or extra-Department) resources are or will be made available to support the course or course revision? N/A

2.7 Anticipated Enrollment (enter where applicable)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Spring Semester</td>
<td>10-15</td>
</tr>
<tr>
<td>Summer Semester</td>
<td></td>
</tr>
</tbody>
</table>

2.8 Anticipated frequency of class meetings. Once a week seminars.
3. DETAILED COURSE DESCRIPTION

3.1 COURSE IDENTIFICATION AND FORMAT:

3.1.1 Course Prefix and Number: EST 613
3.1.2 Course Name: Urbanization and the Environment
3.1.3 Credit Hours: 3
3.1.4 Semester (check all that apply): Fall □ Spring □ Summer □
3.1.5 Format (check as appropriate): Lecture □ Online □ Lab □ Field □ Other □ (explain) Seminar
3.1.6 Contact hours per week: 3
3.1.7 Prerequisite(s) – if none, please enter “None” (Be specific, as Upper Division courses and Graduate courses will likely have some pre-requisite knowledge) None

3.2 SCOPE:

3.2.1 Level of Instruction (check one, or two if a shared resource course):
   - Lower Division □
   - Upper Division □
   - Beginning Graduate □
   - Advanced Graduate □

3.2.2 Relation to curriculum or to other ESF or Syracuse University courses:
   a. Is this a required course? No □ Yes □
   b. Is this an elective course within your department? No □ Yes □
   c. Is enrollment in this course restricted? No □ Yes □
   d. Are other ESF or SU courses similar or identical to this course? No □ Yes □
   e. Is this course a shared resource offering (i.e. is there a graduate or undergraduate concurrent offering)? No □ Yes □

3.3 STUDENT LEARNING OUTCOMES:

Identify the student learning outcomes associated with this course.

- Describe the interconnections between science, engineering, and planning practices and political and economic drivers in shaping different social-ecological outcomes in relation to urbanization, the environment and development;

- Apply and critique concepts and tools of sustainable urban development in order to understand the relationship between economy, urbanization and the environment;

- Use transdisciplinary frameworks to address problems of urbanization as they relate to economic systems, human development, and resource production and consumption;

- Describe and analyze how individuals apply different principles to influence urban form and function and their impact on forming sustainable urban systems
• Analyze and understand processes of spatial uneven development, as it relates to urban systems and the politics of nature in the city, and the policy and planning implications of different measures of urban sustainability and resilience.

3.4 MAJOR CONCEPTS, PROCESSES or TOOLS:

Identify the course content and themes (e.g. Table of Contents) consistent with the learning domains and outcomes.

• Critical analysis of the meaning of development, sustainability, green urbanism, and resilience;

• The social, biophysical, and economic bases of urbanization;

• Scalar processes and impacts of urbanization;

• Resource and infrastructure politics;

• Urban resource production and consumption networks

• Urban climate change adaptation planning and how that coincides with the production and mitigation of risks, hazards, and vulnerabilities

• Commoditization, commodity potential, and consumption;

• Local initiatives in sustainable urban development, resilience, and climate change adaptation planning;

• Urban political ecology

Socio-technical systems and urban sustainability

• Ecological approaches to understanding economic phenomena; and

• Sustainable development policy design principles.

3.5 INSTRUCTIONAL METHODS:

Identify the methods used to meet the course outcomes, as well as the principal instructional methods. readings based on course themes; written responses to readings; student lead class sessions; online peer reviews; individual project at end of semester to apply course concepts and skills to developing a public relations program for a non-profit organization.

3.6 CATALOG DESCRIPTION

Provide the course description using the precise format to be included in the ESF catalog (i.e. course number and title; format; brief description; semester(s) offered; and pre-/co-requisites). Please do not exceed 1000 characters.

EST 626. Urbanization, Development, and the Environment (3)
This course provides a foundation for researching and writing about the social, political, economic, and material aspects of urban infrastructures and networks, resource development, urban environmental governance and decision-making as well as the practices of urban planners, engineers, and scientists in shaping urban space and processes.

3.7 COURSE HISTORY:

Provide the dates of prior approval of this course, and its revision history.

3.7.1 Relationship to current ESF courses

This course is replacing a current ESF course  ☒ YES  ☐ NO

If NO, then proceed to section 4 below.

If YES, then provide below the number and name of the course to be deactivated and removed from the catalog once this course proposal has been approved:

Course Number (of the course to be replaced)  EST 626
Course Name (of the course to be replaced)  Concepts and Principles of Sustainable Development

If the course to be replaced is used by departments other than the department sponsoring this proposal, please indicate below which departments are affected and the date they were notified about the course replacement.

Department:  Date of Notification:
Department:  Date of Notification:
Department:  Date of Notification:
Department:  Date of Notification:
4. Institutional Impacts:

This section pertains to forecasting institutional resource needs to support the course or course revision. Provide clear statements regarding the needs and current availability (or absence) of resources. Note that, if this is a course revision, only the impacts of the revision should be included.

- **Staffing needs:** One instructor
- **Classroom resources (e.g. physical facilities in a laboratory, lecture hall, flexible space, academic computing):** Flexible space, computer and projector, wi-fi.
- **Technology Resources:** N/A
- **Computing Resources (software licensing, hardware, access):** N/A
- **Library Resources (subscriptions, services):** N/A
- **Transportation Requirements (budget, fees, fleet vehicles):** N/A
- **Forest Properties or Field Practicum Facilities:** N/A
5. **Health and Safety Considerations:**

Will any of the conditions or situations outlined below be present in association with the course? **Yes / No**

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1. Will substances with any of the following properties be used during instruction: flammability, toxicity, corrosivity, reactivity, registered pesticide, legally controlled, or other characteristics with the potential to cause harm or injury?</td>
<td>☐ / ☑</td>
</tr>
<tr>
<td>5.2. Will any physical hazards be present during instruction? (e.g., machines that need safety guards; razor blades or syringes; compressed gases, etc.)</td>
<td>☐ / ☑</td>
</tr>
<tr>
<td>5.3. Will any biological hazards be present during instruction? (e.g., handling animals (rabies or hantavirus); cultures or stocks of infectious agents (fungal spores, viruses, bacteria, etc.))</td>
<td>☐ / ☑</td>
</tr>
<tr>
<td>5.4. Will any radiation hazards be present during instruction? (e.g., radioisotopes, X-rays, ultraviolet rays, lasers, etc.)</td>
<td>☐ / ☑</td>
</tr>
<tr>
<td>5.5. Will any electrical equipment that, due to its design, location, or method of use, pose any threat to safety during instruction? (Give considerable thought to electrical use outdoors, or any potentially wet location.)</td>
<td>☐ / ☑</td>
</tr>
<tr>
<td>5.6. Will there be any personal safety issues related to the class? (e.g., due to time of day or location, at the end of any organized class exercise, will students be in danger of physical assault, etc.)</td>
<td>☐ / ☑</td>
</tr>
<tr>
<td>5.7. Will any students be driving official state or research sponsored land or water vehicles during any class or instructional exercise?</td>
<td>☐ / ☑</td>
</tr>
<tr>
<td>5.8. Will any type of personal protective equipment be necessary during class exercises? (e.g., hard-hats, eye/face protection, hearing protection, hand/foot protection, lab coat, visibility clothing, etc.)</td>
<td>☐ / ☑</td>
</tr>
</tbody>
</table>

If the answer was “Yes” to any of the **HEALTH AND SAFETY** questions, please explain:

For lab and field courses to which all answers are “no”, you should explain that here, also. Normally, we would expect some safety precautions for such courses.
6. Coordination and Consultation

Emails/letters, as noted below and attached to this proposal, or signatures below, indicate that the affected departments, programs or units have been notified of this proposal and have had an opportunity to assess the impact of the proposal on their respective units.

Affected Academic Department(s) or Program(s) – other than the sponsoring department:

______________________________  __________________________
Department/Program 1       Name of Chair/Program Director
Chair Signature

______________________________  __________________________
Department/Program 2       Name of Chair/Program Director
Chair Signature

______________________________  __________________________
Department/Program 3       Name of Chair/Program Director
Chair Signature

[if more than three Departments/Programs, please continue on a separate page]

Other Units:

______________________________  __________________________
Associate Provost for Instruction & Dean of the Graduate School (for Gen Ed courses only)  Date

______________________________  __________________________
Registrar  Date

______________________________  __________________________
Library Director  Date

______________________________  __________________________
Computing and Network Services  Date

______________________________  __________________________
Physical Plant  Date

______________________________  __________________________
Forest Properties  Date

______________________________  __________________________
Environmental Health and Safety  Date
7. Proposer Information and Sponsoring Department Chair

Affirmation:

Contact Person:
Name: _______________________________ Department: _______________________
Email: _______________________________ Phone: ____________________________

This proposal has been reviewed and approved by the sponsoring Department. Affected departments have been notified and given the opportunity to provide feedback. Department resources are or will be made available to support the course, or a plan is in place to meet the resource needs as identified in the Institutional Impacts section of this proposal (see Section 4, above).

Name: __________________________________________ Date: ______
Department Chair (or designated curriculum representative)
Signature: __________________________________________ Or letter attached □
Department Chair (or designated curriculum representative)

8. Approvals:

________________________________________ Date
Curriculum Committee

________________________________________ Date
Faculty Governance

________________________________________ Date
Provost