For Minor Changes in existing curriculum (check all that apply):

- revised courses
- new course sequence
- new courses added
- change in total cr. hrs.
- new program objectives*
- new accreditation/assessment requirements

*See SUNY Guidelines

1. Rationale for Change

Please provide an explanatory narrative outlining the rationale for the change, and the impacts of this change on the learning outcomes of the curriculum:

The B.S. in Environmental Science needs to replace one option area course requirement with a different course. In the Renewable Energy option area, students have been required to take SRE 335 Renewable Energy as one of their option area courses. However, starting this upcoming semester (Spring 2021), that course will no longer be offered. We are therefore proposing to replace SRE 335 with SRE 337 Energy Resource Assessment. SRE 337 has been discussed as a suitable alternative with the Renewable Energy option area leader, meets similar learning objectives, and will thus equally satisfy option area curricular expectations.

2. Institutional Impact:

Changes from existing condition:

Anticipated Enrollment or Enrollment Change: Approximately 5-10 students in the Renewable Energy option/year will be required to take SRE 337 instead of SRE 335.

Faculty or Staffing Requirements: No additional staffing requirements

Technology, Computing Resources, and Classroom Resource Demands: None

Change in Accreditation Requirements: None

Changes to Assessment Plan: None

Library Resource Requirements: None

3. Catalog Narrative:
Please attach to this proposal form a copy of the current catalog description in MS Word format, with revisions shown in “track changes”.

**Catalog Descriptions**

**SRE 335 Renewable Energy (3)**
Three hours of lecture/discussion per week providing an overview of the role of renewable energy in the context of energy generation and supply. Sustainable sources of heat, power and fuels will be covered and compared in terms of technological, economic and environmental impacts. Spring Prerequisites: PHY 211, EFB 200, SRE 225 or equivalent one semester of introductory physics. FCH 110 and FCH 111, or equivalent one semester of introductory chemistry with lab. SRE 325 or instructor permission. Note- Credits will not be granted for SRE 335 and 535 (both undergraduate and graduate versions of the same course)

TO:

**SRE 337 Energy Resource Assessment (4)**
Three hours of lecture per week. One week of field visits to utility-scale energy facilities during the week following the end of finals. Evaluation of energy pathways employed in the Northeast U.S. Primary emphasis on the following topics: the economic, environmental, and technical tradeoffs of utility-scale energy pathway; assessments of the economic viability of utility-scale energy pathways. Spring semester.
Prerequisites: SEM major or permission of instructor; SRE 325
## Catalog Changes

### Renewable Energy (15 credits required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Codes*</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRE 441 OR CME 305</td>
<td>Biomass Energy Sustainable Energy Systems for Buildings</td>
<td>3 3</td>
</tr>
<tr>
<td>SRE 325</td>
<td>Energy Systems</td>
<td>3</td>
</tr>
<tr>
<td>SRE 33</td>
<td>Renewable Energy Resource Assessment</td>
<td>43</td>
</tr>
<tr>
<td>SRE 479</td>
<td>Life Cycle Assessment</td>
<td>3</td>
</tr>
</tbody>
</table>

and a minimum of 3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Codes*</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 305</td>
<td>Sustainable Energy Systems for Buildings</td>
<td>3</td>
</tr>
<tr>
<td>ERE 380</td>
<td>Energy Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EST 427</td>
<td>Environmental and Energy Auditing</td>
<td>3</td>
</tr>
<tr>
<td>FCH 360</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>PSE 361</td>
<td>Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PSE 370</td>
<td>Principles of Mass and Energy Balance</td>
<td>3</td>
</tr>
<tr>
<td>SRE 422</td>
<td>Energy Markets and Regulation</td>
<td>3</td>
</tr>
<tr>
<td>SRE 416</td>
<td>Sustainable Energy Policy</td>
<td>3</td>
</tr>
<tr>
<td>SRE 454</td>
<td>Renewable Energy Finance and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHY 305</td>
<td>Solar Energy Science and Architectures</td>
<td>3</td>
</tr>
</tbody>
</table>
**Plan Sheet Changes**

Option Area Courses (a list of courses fulfilling these requirements can be found in the Environmental Science Advising Manual and online at http://www.esf.edu/catalog/environmentalscience.asp). The intent is at least 5 courses for a minimum of 15 credit hours.

```
<table>
<thead>
<tr>
<th>REQUIRED COURSES</th>
<th>EARNED COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Transfer</td>
</tr>
<tr>
<td></td>
<td>Credits ID</td>
</tr>
<tr>
<td>Elective Course I</td>
<td>3 SRE 441 or CME 305</td>
</tr>
<tr>
<td>Elective Course II</td>
<td>3 SRE 325</td>
</tr>
<tr>
<td>Elective Course III</td>
<td>3 SRE 3375</td>
</tr>
<tr>
<td>Elective Course IV</td>
<td>3 SRE 479</td>
</tr>
<tr>
<td>Elective Course V</td>
<td>3 Option Area Elective</td>
</tr>
</tbody>
</table>
```
4. Curriculum Transition Plan:

Please provide a narrative description of your plan for transitioning from your existing curriculum to the proposed new curriculum. Please provide specific dates for implementing curriculum changes, overlap periods where old and new curricula may exist simultaneously, and final phase out of old curricula. Please also include impacts and mitigating considerations for transfer students and students in mid-program during implementation, impacts of changes in semester delivery of existing courses, addition of new courses within a particular semester, etc.

This curriculum change will be implemented immediately pending approval. Out of necessity, students in the Renewable Energy option area who have not yet taken SRE 335 will be advised to take SRE 337 in the Spring 2021 or Spring 2022 term, depending on their anticipated graduation date. Those who have already taken SRE 335 will not be required to take SRE 337. As SRE 337 is offered in the same semester as SRE 335 and has the same course prerequisites, this transition will not have an impact on course sequencing or semester delivery of existing courses.

5. Approval Signatures:

Signatures below, or attached letters, 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. If departments did not respond to your notification, you may wish to document your effort to contact them.

Affected Academic Department(s) or Program(s):

<table>
<thead>
<tr>
<th>Sustainable Resources Management</th>
<th>Dr. Chris Nowak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department/Program 1</td>
<td>Name of Chair/Program Director</td>
</tr>
</tbody>
</table>

__________________________________________________________  ____________________________
Chair Signature  
Date  
Or letter attached □

[If more/less than three Departments/Programs, please add/delete lines as appropriate.]
Hi Monica:

Thank you for this notification.

I am familiar with the background on this change.

I believe we are all set over here in SRM.

Chris

Christopher A. Nowak, PhD
Department Chair and Professor
The Sustainable Resources Management Department
SUNY College of Environmental Science and Forestry
319 Bray Hall • 1 Forestry Drive • Syracuse, NY 13210
P: 315-470-6575
canowak@esf.edu • www.esf.edu/srm

From: Monica C Blaisdell
Sent: Wednesday, October 7, 2020 7:23 PM
To: Christopher A. Nowak
Subject: Notification of Minor Curriculum Change Proposal

Dr. Nowak,

I hope that all is well with you at this point in the semester.

The Division of Environmental Science is preparing to submit a Minor Curriculum Change Proposal that involves two SRE courses. Before we submit to COC, I have attached the proposal for your review and signature as SRM Department Chair. I have included versions in Word and PDF format so that the document may be signed virtually.

Please let me know if you have any questions about this proposal. Thank you for your time.

Best,

Monica Blaisdell
Academic Advisor/Curriculum Coordinator
Division of Environmental Science
SUNY College of Environmental Science & Forestry
202 Baker Laboratory | 1 Forestry Drive | Syracuse, NY 13210
Other Units

Library Director

Computing and Network Services

Physical Plant

Forest Properties

Environmental Health and Safety

Admissions

Other

Office of the Provost

Signature below, or attached letter, indicates that the Provost either a) agrees that there is no need for additional resources from the College; or b) indicates willingness to provide the extra support to the department.

Provost Signature

Date

Or letter attached □
6. Proposer Information and Department Chair Affirmation:

Contact Person:

Name: Monica Blaisdell ____________________________ Department: Division of Environmental Science

Email: mblaisde@esf.edu ____________________________ Phone: 315-565-3029

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 this curriculum revision, or a plan is in place to meet the resource needs as identified in the Institutional Impacts section of this proposal (see Section 2, above).

Name: Russell Briggs ____________________________ Date: 11/11/2020

Department Chair (or designated curriculum representative)

Signature: ____________________________  Or letter attached □
Department Chair (or designated curriculum representative)
7. Final Approvals:

__________________________________________________________  
Curriculum Committee  
Date

__________________________________________________________  
Faculty Governance  
Date

__________________________________________________________  
Provost  
Date