**General Requirements for Graduation Without Thesis** – 27 units total with 3.0 GPA overall:

- **4 units** AME 525 *Engineering Analysis*
- **10 units** Required core coursework (See below)
- **7-8 units** Approved elective courses  (See below)
- **Remaining units** Approved 400 or 500 level elective courses
- Only 3 units of AME 590 *Directed Research* can be taken as elective credit
- For official approval of waivers, substitutions, etc., please contact the faculty advisor for this program - Prof. Paul Ronney ronney@usc.edu

**Notes:** Term course typically offered is (F)=Fall  (Sp)= Spring  (Su)=Summer   + Not Regularly Offered
Ex: AME 436 Energy and Propulsion (Sp) is typically offered in the Spring.

### Energy Conversion

**Required Courses:**
- AME 513a *Fundamentals and Applications of Combustion* (F)
- AME 577 *Survey of Energy and Power for a Sustainable Future* (Sp)
- AME 578 *Modern Alternative Energy Conversion Devices* (F)
- AME 436 *Energy and Propulsion* (Sp)
- AME 513b *Fundamentals and Applications of Combustion* (Sp)
- AME 515 *Advanced Heat and Mass Diffusion* (F)

### Energy Conversion Elective Courses

- AME 516 *Convective Processes* +
- AME 525 *Engineering Analysis*
- AME 530a *Dynamics of Incompressible Fluids* (Fa)

* Students are encouraged to consider electives from other Sustainable Infrastructure Systems programs.

### Program of Study Worksheet

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<thead>
<tr>
<th>Course</th>
<th>Semester</th>
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<td>AME 525</td>
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*To be approved to pursue the MSMEEC with Thesis, you must first discuss with an AME Academic Advisor during your first semester in*