MECHANICAL ENGINEERING,
POST-BACCALAUREATE CERTIFICATE (P.B.C.)

12 credits required

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following four course sequences, or select any four of the following courses:</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Energy and The Environment:**

**Option 1:**
- ENPM621 Heat Pump and Refrigeration Systems Design Analysis
- ENPM622 Energy Conversion I - Stationary Power
- ENPM624 Renewable Energy Applications
- ENPM625 Heating, Ventilation and Air Conditioning of Buildings

**Option 2:**
- ENPM622 Energy Conversion I - Stationary Power
- ENPM623 Control of Combustion Generated Air Pollution
- ENPM624 Renewable Energy Applications
- ENPM627 Environmental Risk Analysis

**General Mechanical Engineering:**

**Option 1:**
- ENME631 Advanced Conduction and Radiation Heat Transfer
- ENME632 Advanced Convection Heat Transfer
- ENME633 Molecular Thermodynamics
- ENME640 Fundamentals of Fluid Mechanics

**Option 2:**
- ENME600 Engineering Design Methods
- ENME610 Engineering Optimization
- ENPM671 Advanced Mechanics of Materials
- ENPM652 Applied Finite Element Methods

**Total Credits** 12