Minor in Robotics and Autonomous Systems

The Minor in Robotics and Autonomous Systems consists of a minimum of 16 credit hours, representing fundamental areas of knowledge in the fields of robotics and autonomous systems. Undergraduate students interested in the minor in Robotics and Autonomous Systems must select the coursework with an advisor in order to receive the minor. The main objective of the program is to offer interested students with GPAs of 3.00 or above in any field of study the opportunity to enhance their capabilities in their own profession by developing expertise in the high demand areas of embedded systems, signal processing, robotics, and controls. These courses generally have prerequisites, and their enrollment will need approval by the Electrical and Computer Engineering Department.

Degree Requirements
Enrolled students must complete a minimum of 16 credit hours in consultation with an advisor and maintain a GPA of 3.00 or above.

Degree Plan

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 2303</td>
<td>Digital Systems Design I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 2103</td>
<td>Lab for ECE 2303</td>
<td>1</td>
</tr>
<tr>
<td>ECE 3331</td>
<td>Discrete Time Signals &amp; Sys</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3360</td>
<td>Intro Robotics and Auto Syst</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>10</strong></td>
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</tbody>
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Prescribed Elective Courses:
Select at least six credits of the following:

- ECE 3370  | Intro to Communication Networks
- ECE 4332  | Real-Time Digital Signal Proc
- EE 4357   | Biomechatronics
- ECE 4338  | Systems and Controls
- ECE 4360  | Foundations of Deep Learning
- ECE 4390  | Special Topics
- ECE 4191  | Engineering Problems
- ECE 4190  | Co-op Work Experiences
- ECE 33XX/ECE43XX ECE elective course (optional by Department approval)

**Total Hours** 16 or more