Electronics
(10-605-1)
Associate of Applied Science Degree
Most Courses Offered at IMET Center

Suggested Sequence

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Requisites</th>
<th>Credits</th>
<th>Hrs/Wk</th>
</tr>
</thead>
<tbody>
<tr>
<td>605-113</td>
<td>DC/AC I</td>
<td></td>
<td>3</td>
<td>2-2</td>
</tr>
<tr>
<td>605-130</td>
<td>Digital Electronics</td>
<td></td>
<td>4</td>
<td>3-2</td>
</tr>
<tr>
<td>801-136</td>
<td>English Composition 1</td>
<td>Prereq: 831-103 (See Note 1)</td>
<td>3</td>
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<tr>
<td>804-115</td>
<td>College Technical Math 1</td>
<td>Prereq: 834-110 (See Note 1)</td>
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<tr>
<td>809-198</td>
<td>Psychology, Introduction to</td>
<td>Prereq: 838-105 (See Note 1)</td>
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<tr>
<td>605-114</td>
<td>DC/AC II</td>
<td>Prereq: 605-113</td>
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<td>2-2</td>
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<tr>
<td>605-120</td>
<td>Electronic Devices I</td>
<td>Prereq: 605-113</td>
<td>4</td>
<td>2-4</td>
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<tr>
<td>806-154</td>
<td>General Physics I</td>
<td>Prereq: 804-115</td>
<td>4</td>
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<td>801-197</td>
<td>Technical Reporting</td>
<td>Prereq: 801-136</td>
<td>3</td>
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<tr>
<td>804-197</td>
<td>College Algebra &amp; Trig w Apps</td>
<td>Prereq: 804-115</td>
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<td>809-195</td>
<td>Economics</td>
<td>Prereq: 838-105 (See Note 1)</td>
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<td>605-109</td>
<td>Fabrication Techniques</td>
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<td>605-121</td>
<td>Electronic Devices II</td>
<td>Prereq: 605-120</td>
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<td>605-174</td>
<td>Digital Circuits II</td>
<td>Prereq: 605-130</td>
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<tr>
<td>605-190</td>
<td>Microprocessors</td>
<td>Coreq: 605-114; 605-121</td>
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<td>605-150</td>
<td>Industrial Electronics</td>
<td>Prereq: 605-114; 605-120</td>
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<tr>
<td>605-151</td>
<td>Electronic Communications</td>
<td>Prereq: 605-114; 605-120</td>
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<td>605-176</td>
<td>Optoelectronics</td>
<td>Prereq: 605-114; 605-120</td>
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<tr>
<td>809-196</td>
<td>Sociology, Introduction to</td>
<td>Prereq: 838-105 (See Note 1)</td>
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<td>3-0</td>
</tr>
</tbody>
</table>

Electives
Take 6 elective credits. Any associate degree level course may be taken as an elective.

Suggested Electives:
- 605-181 Computer Hardware Arch (3 Cr)
- 605-182 Computer Interfacing Tech (3 Cr)
- 605-184 Data Acquisition (3 Cr)

Program Total Required 69

Courses may be taken out of suggested sequence as long as requisites have been met.
**Program Description**

Electronics focuses on the installation, maintenance, modification, diagnosis, and troubleshooting of a wide variety of electronic equipment. In addition to comprehensive training in electronic theory, lab experience is an integral part of the program. The study areas include AC/DC principles, transistor operation, digital circuits, microprocessors, optoelectronics, communications, and industrial electronics. The operation and use of various test and diagnostic equipment is included throughout the curriculum. The program prepares the students for a broad range of entry-level electronic technician positions.

**Program Learning Outcomes**

Graduates of the Electronics Associate Degree Program should be able to:

1. Apply electronic theory to practice.
2. Operate test equipment.
3. Build electronic circuits and systems.
4. Evaluate the operation of electronic circuits or systems.
5. Communicate technical information.

**Core Abilities**

Gateway believes students need both technical knowledge and skills and core abilities in order to succeed in a career and in life. The following nine core abilities are the general attitudes and skills promoted and assessed by all Gateway programs. All Gateway graduates should be able to:

1. Act responsibly
2. Communicate clearly and effectively
3. Demonstrate essential computer skills
4. Demonstrate essential mathematical skills
5. Develop job seeking skills
6. Respect themselves and others as a member of a diverse community
7. Think critically and creatively
8. Work cooperatively
9. Value learning

**Admission Requirements**

1. Students must submit an application and $30 fee.
2. Students must complete reading, writing, math, and computer skills placement assessments.
3. Students must submit official high school, GED, or HSED transcript.

**Graduation Requirements**

1. 69 Credits with an average of 2.0 or above.
2. *Average of 2.0 ("C") or above for these major courses.

For a complete list of Graduation Requirements check the Student Handbook.

**Notes**

1. A satisfactory placement test score (or successful remediation) is required prior to enrollment. See an advisor for details.
2. Safety glasses are required in labs. If prescription safety glasses are necessary, please allow a minimum of 90 days.
3. Any course may be taken prior to entry in the program, assuming prerequisites and corequisites have been satisfied (or waived with department approval).

**Other Information**

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for a period of two years or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult the Master Class Schedule for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.

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**Igualdad de Oportunidades**

You may call Student Services at 1-800-247-7122 for additional information.

For a complete list of course descriptions (and possible online courses) for this program, please consult Web Advisor on our web page at www.gtc.edu.

My advisor is __________________________. My advisor’s contact information is __________________________.