

Biomedical Engineering Technology (2271) (A.S.)

RECOMMENDED ROADMAP

This Roadmap is a recommended way to complete this program of study. Course availability is subject to change. In some cases, a specific course is shown, but there are other options available. To review and consider other courses, see the note at the bottom of this page. Part-time students should refer to the Recommended Course Sequence list. Consult a Student Success Advisor or the Program Manager before creating your actual Academic Degree Plan and refer to the [FSCJ Catalog](#) for more information.

1st Term

Course ID	Course Title	Credit Hours	Grade Earned
1* ENC 1101	English Composition I	3	
2* See Note Below	Choose 1 General Education Mathematics	3	
EET 1084	Survey of Electronics	3	
CTS 1133	Software Configuration	3	

Term Total = 12

2nd Term

Course ID	Course Title	Credit Hours	Grade Earned
CTS 1131	Hardware Configuration	3	
CTS 1154	Technical Support	3	
EET 1144	Solid State Devices	3	
EET 1037	DC/AC Network Analysis	3	

Term Total = 12

3rd Term

Course ID	Course Title	Credit Hours	Grade Earned
2* See Note Below	Choose 1 General Education Social and Behavioral Science	3	
CET 2600	Network Fundamentals (CISCO 1)	3	
CTS 1120	Fundamentals of Information Security	3	
ETS 1412	Biomedical Technology and Techniques	3	

Term Total = 12

4th Term

Course ID	Course Title	Credit Hours	Grade Earned
CTS 2655	Routing and Switching Fundamentals (CISCO 2)	4	
CET 1114	Digital Fundamentals	3	
ETS 2436	Biomedical Instrumentation I	3	
ETS 2438	Biomedical Instrumentation II	3	

Term Total = 13

5th Term

Course ID	Course Title	Credit Hours	Grade Earned
2* See Note Below	Choose 1 General Education Humanities	3	
3* See Note Below	Choose 1 General Education Communications	3	
ETS 1943	Biomedical Internship I	3	
ETS 2946	Biomedical Internship II	3	

Term Total = 12

Total Credit Hours = 61

Program Notes:

1* ENC 1101C can be taken in place of ENC 1101. Please speak with your advisor for more information.

2* See the option for the General Education Requirements at fscj.edu/ge

3* General Education Communications options include: ENC 1102, SPC 2017, SPC 2065 or SPC 2608

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RECOMMENDED COURSE SEQUENCE

This list shows a recommended sequence for completing the courses in this program of study. Course availability is subject to change. Part-time students should use this list to determine which courses to take next that fit their schedule. In some cases, a specific course is shown, but there are other options available. To review and consider other courses, see the note on page 1. Consult a Student Success Adviser or the Program Manager before creating your actual Academic Degree Plan and refer to the [FSCJ Catalog](#) for more information.

- **ENC 1101** - English Composition I (Credit Hours: 3) - **Prerequisites:** Satisfactory score on reading and writing placement tests. **See program note 1*.**
- **Choose 1 General Education Mathematics.** **See program note 2*.**
- **EET 1084** - Survey of Electronics (Credit Hours: 3) - **Prerequisites:** None.
- **CTS 1133** - Software Configuration (Credit Hours: 3) - **Prerequisites:** None.
- **CTS 1131** - Hardware Configuration (Credit Hours: 3) - **Prerequisites:** None.
- **CTS 1154** - Technical Support (Credit Hours: 3) - **Prerequisites:** None.
- **EET 1144** - Solid-State Devices (Credit Hours: 3) - **Prerequisites:** EET 1084.
- **EET 1037** - DC/AC Network Analysis (Credit Hours: 3) - **Prerequisites:** EET 1084
- **Choose 1 General Education Social and Behavioral Science.** **See program note 2*.**
- **CET 2600** - Network Fundamentals (CISCO 1) (Credit Hours: 3) - **Prerequisites:** CTS 1131 and CTS 1133 both with a grade of “C” or higher.
- **CTS 1120** – Fundamentals of Information Security (Credit Hours 3) – CTS 1131 and CTS 1133 both with a grade of “C” or higher.
- **ETS 1412** - Biomedical Technology and Techniques (Credit Hours: 3) - **Prerequisites:** EET 1084.
- **CTS 2655** – Routing and Switching Fundamentals (CISCO 2) (Credit Hours 4) – **Prerequisites:** CET 2600 with a grade of “C” or higher.
- **CET 1114** - Digital Fundamentals (Credit Hours: 3) - **Prerequisites:** EET 1084.
- **ETS 2436** - Biomedical Instrumentation I (Credit Hours: 3) - **Prerequisites:** CET 1114 and ETS 1412.
- **ETS 2438** - Biomedical Instrumentation II (Credit Hours: 3) - **Prerequisites:** ETS 2436.
- **Choose 1 General Education Communications from ENC 1102, SPC 2017, SPC 2065 or SPC 2608.** **See program note 3*.**
- **Choose 1 General Education Humanities.** **See program note 2*.**
- **ETS 1943** - Biomedical Internship I (Credit Hours: 3) - **Prerequisites:** None.
- **ETS 2946** - Biomedical Internship II (Credit Hours: 4) - **Prerequisites:** None.

Total Credit Hours = 61

To view a list of General Education Requirements, please visit our online catalog: fscj.edu/ge

CAREER OPTIONS

The careers that graduates will be eligible for include Biomedical Equipment Technician (BMET) and Electronics Technician. The U.S. Department of Labor predicts the demand for biomedical engineering technicians will grow as much as 34 percent overall in the next several years. FSCJ is the regional resource for employers in every type of technology worker. Our partnerships with Cisco Systems, Microsoft and local hospitals provide career connections. FSCJ's intranet site posts jobs targeting our students. Graduates are regularly employed by Medtronic, Baptist, Fresenius Medical Care, Mayo Clinic and other regional employers, including the government and military.

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