

UCF Degree Programs

ELECTRICAL ENGINEERING TECHNOLOGY - COMPUTER SYSTEMS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science

Engineering Technology (ENT) Department

ENGR 207, 407-823-4749; Fax: 407-823-4746

<http://www.ent.ucf.edu>

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Admission Requirements none

Degree Requirements

- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)

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|---|-------|
| A. Communication Foundations | 9 hrs |
| 1. ENC 1101 & ENC 1102 | |
| 2. Prefer SPC 1016 | |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 6 hrs |
| 1. Select MAC 1105 | |
| 2. Select STA 2023 | |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | 8 hrs |
| 1. Select PHY 2053C | |
| 2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C | |

2. Common Program Prerequisites (CPP) (6/8 hrs)

(C (2.0) or better grades are required in all courses)

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|---------------|-----------------------------------|---------|
| MAC 2253 | Applied Calculus I | 3/4 hrs |
| or MAC 2311 | Calculus w/Analytical Geometry I | |
| MAC 2254 | Calculus II or equiv | 3/4 hrs |
| or MAC 2312 | Calculus w/Analytical Geometry II | |
| PHY 2053C | Physics I/Lab | GEP |
| or PHY 2048/L | Physics for Scientist & Engrs I | |

See "Common Prerequisites" in the Transfer and Transitions Services section (pg. 46) for more information.

3. Engineering Technology Core Requirements (25 hrs)

(C (2.0) or better grades are required in all courses)

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|---|--|
| BSC 1005/L, BSC 1050/L, or GEO 1200/LBSC2010C | GEP |
| ENC 3241 | Writing for the Technical Professional |
| MAC 1105 | College Algebra |
| MAC 1114 | College Trigonometry |
| MAC 2253 | Applied Calculus I |
| or MAC 2311 | Calculus w/Analytical Geometry I |
| MAP 3401 | Problem Analysis |
| or MAC 2312 | Calculus w/Analytical Geometry II |
| PHY 2053C | College Physics I |
| PHY 2054C | College Physics II |
| ETG 3541 | Applied Mechanics |
| ETI 3651C | Computer Applications |
| ETI 3671 | Technical Economic Analysis |
| ETI 3116 | Applied Engrng Quality Assurance |
| ETI 4448 | Applied Project Management |
| STA 2023 | Statistical Methods I |

4. Technical Specialization (56 hrs)

Lower Level Required and Elective Courses (20 hrs)

(C (2.0) or better grades are required in all courses)

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|-----------|--------------------------------|-------|
| EST 3543C | Programmable Logic Controllers | 3 hrs |
| CET 3323C | Digital Technology | 4 hrs |
| CET 2364 | System Applications in C | 3 hrs |
| EET 3085C | Electricity and Electronics | 4 hrs |
| EET 2025C | Electrical Circuits | 4 hrs |
| | Lower level technical elective | 2 hrs |

Upper Level Required Courses (30 hrs)

(C (2.0) or better grades are required in all courses)

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|-----------|--------------------------------|-------|
| CET 3198C | Digital Systems | 3 hrs |
| CET 3503 | Microcomputer Technology I | 3 hrs |
| CET 3383 | Applied Systems Analysis I | 3 hrs |
| CET 4333 | Computer Organization & Design | 3 hrs |
| CET 4427 | Applied Database I | 3 hrs |
| CET 4505 | Applied Operating Systems I | 3 hrs |
| EET 3716 | Network Analysis | 3 hrs |
| CET 4138C | Digital Programmable Devices | 3 hrs |
| CET 4134C | Microprocessor Elec II | 3 hrs |
| CET 4429 | Applied Database II | 3 hrs |

Upper Level Technical Electives (6 hrs)

(C (2.0) or better grades are required in all courses)

See faculty advisor for list of approved Technical Electives.

5. Departmental Exit Requirement (3 hrs)

(C (2.0) or better grade is required)

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|-----------|-----------------------|-------|
| ETG 4950C | Senior Design Project | 3 hrs |
|-----------|-----------------------|-------|

- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives (0-4 hrs)

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration)

Related Minors: Interdisciplinary Informatics Technology

Transfer Notes:

Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.

- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department
- PHY 2048/L can substitute for PHY 2053C.

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.o eas.ucf.edu/alc/academic_learning_compacts.htm

Tentative Course Schedule for the Computer Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Freshman Year		13 hrs	Spring	15 hrs	
ENC 1101	Composition I	3	ENC 1102	Composition II	3
MAC 1105	College Algebra	3	STA 2023	Statistical Methods	3
	Biological science	4	MAC 1114	Trigonometry	3
	Social Foundation	3	Social Foundation		3
			Cultural/Historical Foundation		3

Sophomore Year

Fall	16 hrs	Spring	13/14 hrs
SPC 1600 Oral Communications	3	MAC 2253 Applied Calc I	3/4
PHY 2053C College Physics I	4	or MAC 2311 Calc w Anly Geo	
Cultural/Historical Foundation	3	ETI 3671 Tech Econ Anal	3
ETI 3651C Computer Appl	3	Cultural/Historical Foundation	3
CET 2364 Sys Appl in C	3	PHY 2054C College Physics II	4
Summer	7 hrs		
ENC 3241 Writing Tech Pros	3		
EET 3085C Electricity and Electro	4		

Junior Year

Fall	13/14 hrs	Spring	15 hrs
MAP 3401 Problem Analysis	3/4	CET 3323C Digital Technology	4
or MAC 2312 Calculus II		CET 3383 Appl Sys Anal I	3
or MAC 2254 Applied Calc II		CET 3198C Digital Systems	3
EET 2025C Electrical Circuits	4	EET 3716 Network Analysis	3
ETG 3541 Applied Mechanics	3	Lower level elective	2
EST 3543C Programmable Logic Cont	3		
Summer	9 hrs		
CET 4134C Micro Electronics II	3		
CET 4333 Computer Org	3		
Upper level elective	3		

Senior Year

Fall	15 hrs	Spring	12 hrs
CET 4427 Applied Database I	3	ETG 4950C Senior Design Proj	3
CET 3503 Microcomputer Tech I	3	CET 4429 Applied Database II	3
CET 4505 Appl Oper Sys I	3	ETI 4448 Appl Proj Management	3
ETI 3116 App Eng Quality Assur	3	Upper level elective	3
CET 4138C Digital Prgml Devices	3		