

Awards

Associate Degree: Associate in Engineering (A10500)
Length of Program: 4 Semesters
Prerequisite: High School Diploma, MAT172 or Placement Test Equivalent

Diploma: Not Applicable
Length of Program: Not Applicable
Prerequisite: Not Applicable

Certificate: Not Applicable
Length of Program: Not Applicable
Prerequisite: Not Applicable

Other Important Information

Application Deadlines: None

Scholarship/Title IV Financial Aid/VA Services: Scholarships/Title IV Financial Aid/Veteran's assistance may be available for associate degrees. Certificates and diplomas that fall under this program/area of study **may or may not be eligible** for Scholarship/Title IV Financial Aid/VA Services. Please contact the Financial Aid Office, Student Center, Room 2; Telephone (910) 678-8242. Veterans Services, General Classroom Building, Room 202, (910) 678-8580.

Program Information Contacts

Instructor

Jaime Villamil
(910) 678-7354

Advanced Technology Center, Room 244-F
villamij@faytechcc.edu
www.faytechcc.edu

Dean of Engineering and Applied Technology

Pam Gibson
(910) 486-3930

Advanced Technology Center, Room 145
gibsonp@faytechcc.edu
www.faytechcc.edu



FTCC

2201 Hull Road
P.O. Box 35236
Fayetteville, NC 28303
(910) 678-8400

ASSOCIATE IN ENGINEERING



www.faytechcc.edu

Fayetteville Technical Community College

910-678-8400
P.O. Box 35236 • 2201 Hull Road
Fayetteville, NC 28303

An Equal Opportunity Employer

PROGRAM FACT SHEET ASSOCIATE IN ENGINEERING (A10500)



The Associate in Engineering (AE) degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses. Within the degree program, the institution shall include

opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

The degree plan includes required general education and prerequisite courses that are acceptable to all state funded Bachelor of Engineering programs. Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering Programs. Associate in Engineering graduates may then apply to any of these programs without taking additional and sometimes duplicative courses. *Admission to Engineering programs is highly competitive and admission is not guaranteed.*

To be eligible for the transfer of credits under the AE to the Bachelor of Science in Engineering Articulation Agreement, community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.5 on a 4.0 scale.



FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE ASSOCIATE IN ENGINEERING (A10500)

Effective: Fall 2024

Revised: 02/07/24

Length: 4 Semesters

Prerequisite: High School Diploma, MAT-172 or Placement Test Equivalent

Award: Associate in Engineering

FALL SEMESTER 1

Prefix	No.	Title	Class	Lab	Clinical	Credit
ACA	122	College Transfer Success	0	2	0	1
CHM	151	General Chemistry	3	3	0	4
EGR	150	Intro to Engineering	1	2	0	2
ENG	111	Writing and Inquiry	3	0	0	3
MAT	271	Calculus I	3	2	0	4
TOTALS			10	9	0	14

SPRING SEMESTER 1

Prefix	No.	Title	Class	Lab	Clinical	Credit
ENG	112	Writing/Research in the Disc	3	0	0	3
MAT	272	Calculus II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
		Humanities Elective	3	0	0	3
TOTALS			12	5	0	14

FALL SEMESTER 2

Prefix	No.	Title	Class	Lab	Clinical	Credit
ECON	251	Principles of Microeconomics	3	0	0	3
PHY	252	General Physics II	3	3	0	4
		Soc/Behavioral Sciences Elective	3	0	0	3
		Pre-major Elective	3	0	0	3
		Pre-major Elective	3	0	0	3
TOTALS			15	3	0	16

SPRING SEMESTER 2

Prefix	No.	Title	Class	Lab	Clinical	Credit
MAT	273	Calculus III	3	2	0	4
		Fine Arts/Comm Elective	3	0	0	3
		General Education Elective	3	0	0	3
		Pre-major Elective	3	0	0	3
		Pre-major Elective	3	0	0	3
TOTALS			15	2	0	16

TOTAL REQUIRED CREDITS.... 60



Work-Based Learning Option: NA

***Note:** Students must select one elective course from each of the Humanities, Fine Arts/Comm, Social/Behavioral Sciences, and General Education categories. Students must select 11-12 SHC from the Pre-Major Electives category listed below. See your advisor for assistance in selecting courses appropriate to the specific university and engineering major requirements.

Elective options:

Humanities: ENG-231, ENG-232, ENG-241, ENG-242, PHI-215, PHI-240, REL-110

Fine Arts/Comm: ART-111, ART-114, ART-115, COM-231. MUS-110, MUS-112

Social/Behavioral Sciences: HIS-111, HIS-112, HIS-131, HIS-132, POL-120, PSY-150, SOC-210

General Education: BIO-111, CHM-152, COM-110, ECO-252, GEL-111, HUM-110, PHI-240

Pre-Major: BIO-111, CHM-152, CHM-251, CHM-252, COM-110, COM-231, CSC-134, CSC-151, DFT-170, ECO-252, EGR-210, EGR-212, EGR-214, EGR-215, EGR-216, EGR-220, EGR-225, EGR-228, GEL-111, HUM-110, MAT-280, MAT-285, PED-110

Note: The acceptance of transfer credit is ultimately up to the receiving institution. Where choices are available it is best to contact the institution you plan to attend to maximize your selection.

Refer to the FTCC website for the most current information.
Go to www.faytechcc.edu and click on College Catalog.