

SCHOOL OF INDUSTRIAL TECHNOLOGY

Engineering Technology AAS Degree (ET33)

Offered at Clarkesville Campus

Entrance Dates Fall, Spring, Summer
 Length of Program..... 6 Terms
 Credit Hours Required for Graduationaccording to specialization 66-70

Purpose: The Engineering Technology Associate of Applied Science degree program is intended to provide the opportunity for students to explore a career in engineering at the professional level. Program graduates will receive an Associate of Applied Science degree in Engineering Technology, qualifying them as engineering technicians with a specialization in mechanical engineering technology, electrical engineering technology, or industrial engineering technology.

Admission Requirements:

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

Program Courses

Credits

General Education Core Courses

Area I	Language Arts/Communication		3
	ENGL 1101	Composition and Rhetoric (required)	
Area II	Social/Behavioral Sciences		3
	<i>(one of the following required)</i>		
	HIST 1111	World History I	
	HIST 1112	World History II	
	HIST 2111	U.S. History I	
	HIST 2112	U.S. History II	
Area III	Natural Sciences/Mathematics		7
	MATH 1113	Pre-calculus	
	MATH 1131	Calculus I	
Area IV	Humanities/Fine Arts		3
	<i>(one of the following required)</i>		
	ARTS 1101	Art Appreciation	
	MUSC 1101	Music Appreciation	

Occupational Courses*

Total 28 credit hours

COLL 1010	College and Career Success Skills	3
CHEM 1211	Chemistry I	3
CHEM 1211L	Chemistry Lab I	1
DFTG 2010	Engineering Graphics	4
ENGL 1102	Literature and Composition	3
ENGL 1105	Workplace and Technical Communications	3
PHYS 1111	Introductory Physics I	3
PHYS 1111L	Introductory Physics Lab I	1
PHYS 1112	Introductory Physics II	3
PHYS 1112L	Introductory Physics Lab II	1
SPCH 1101	Public Speaking	3

SCHOOL OF INDUSTRIAL TECHNOLOGY

*A grade of “C” or better must be achieved in each occupational and specialization course for graduation.

Completion of one of the following specializations required

Electrical Engineering (8E13)			Total 23 credit hours
ENGT	1000	Introduction to Engineering Technology	3
ECET	1101	Circuit Analysis I	4
ECET	2101	Circuit Analysis II	4
ECET	1110	Digital Systems I	4
ECET	2120	Electronic Circuits I	4
Choose one of the following			
IDSY	1120	Basic Industrial PLCs	4
IDSY	1220	Intermediate Industrial PLCs	(4)
MATH	1132	Calculus II	(4)

Industrial Engineering (8I23)			Total 25-26 credit hours
ACCT	1100	Financial Accounting I	4
MATH	1127	Introduction to Statistics	3
MEGT	1010	Manufacturing Processes	3
LOGI	1000	Business Logistics	3
CIST	1305	Program Design and Development	3
OR			
CIST	2341	C# Programming I	(4)
OR			
CIST	2371	Java Programming I	(4)
AND			
		Guided Electives	9

Mechanical Engineering (8ME3)			Total 22-24 credit hours
DFTG	2020	Visualization and Graphics	3
ENGT	1000	Introduction to Engineering	3
MATH	1132	Calculus II	4

Select 9 credit hours from courses below with at least 2 MEGT courses			
CIST	1305	Program Design and Development	3
CIST	2341	C# Programming I	(4)
CIST	2371	Java Programming I	(4)
MEGT	1010	Manufacturing Processes	3
MEGT	2030	Statics	3
MEGT	2080	Strength of Materials	(4)
AND			
		Guided Electives	3

Estimated cost of books and supplies for full program is approximately \$2,000.

SCHOOL OF INDUSTRIAL TECHNOLOGY

Engineering Technician Certificate (ET31)

Offered at Clarkesville Campus

Entrance Dates Fall, Spring, Summer
 Length of Program..... 2 Terms
 Credit Hours Required for Graduation 17-18

Purpose: The Engineering Technician Fundamentals certificate program provides students with basic technical skills required to enter into the engineering technology field through a short-term certificate or to continue into the associate degree program.

Admission Requirements:

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

Program Courses

Credits

ENGT 1000	Introduction to Engineering Technology	3
DFTG 2010	Engineering Graphics	4
MATH 1111	College Algebra	3

Select one of the following specializations

Electrical Engineering Specialization (8EE1)

ECET 1101	Circuit Analysis I	4
ECET 2101	Circuit Analysis II	4

Industrial Engineering Specialization (8IE1)

MEGT 1010	Manufacturing Processes	3
IDSY 1190	Fluid Power Systems	4

Mechanical Engineering Specialization (8ME1)

MEGT 1010	Manufacturing Processes	3
IDSY 1190	Fluid Power Systems	4

Estimated cost of books and supplies for full program is approximately \$750.

SCHOOL OF INDUSTRIAL TECHNOLOGY

Engineering Technology Fundamentals Certificate (EF11)

Offered at Clarkesville Campus

Entrance Dates Fall
 Length of Program..... 2 Terms
 Credit Hours Required for Graduation 13

Purpose: The Engineering Technology Fundamentals certificate program exposes students to Engineering Technology. This certificate provides training in core engineering techniques. These techniques include drafting and design, and complex mathematical calculations. Topics also include engineering project write-ups, presentations, evaluation, and safety.

Admission Requirements:

- Age 16 or older or student with dual/joint enrollment in high school or GED® students seeking access to quality instruction at the postsecondary level
- High school diploma or GED®
- Completion of application process including placement test; or provide SAT or ACT scores

Program Courses

Credits

ENGT	1000	Introduction to Engineering Technology	3
MATH	1111	College Algebra	3
MATH	1113	Pre-calculus	3
DFTG	2010	Engineering Graphics	4
OR			
PHYS	1111	Introductory Physics I	(3)
AND			
PHYS	1111L	Introductory Physics I Lab	(1)

Estimated costs of books and supplies for full program is approximately \$750.