Electrical Engineering Technology

	Two-Year Institution	Four-Year Institution
	18 (AAS)[1]	*4 (BS)*[2]

MATHEMATICS GENERAL EDUCATION

Recommended Courses
College Algebra

Pre-Calculus

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
College Algebra	33%	Pre-calculus	50%
Technical Mathematics	28%	Math for Business Majors I	25%
Trigonometry	22%	Business Calculus	25%
Pre-Calculus	17%	Trigonometry	25%
Technical Mathematics 2	11%	Technical Calculus I/ Applied Calculus I	50%
		Applied Calculus II	25%

ARTS AND HUMANITIES GENERAL EDUCATION

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
Any Course	33%	Any Course	75%
NONE	33%	Engineering Ethics	25%
Ethics Related	11%		
Critical Thinking	11%		

SOCIAL SCIENCES GENERAL EDUCATION

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
Any Course	33%	Any Course	50%
Microeconomics	17%	Microeconomics	25%
Macroeconomics	17%	Macroeconomics	25%
NONE	17%		
Psychology	17%		
Sociology	17%		

NATURAL AND PHYSICAL SCIENCE GENERAL EDUCATION

Recommended Courses
General Physics 1

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
General Physics 1	61%	General Chemistry I	75%
General Physics 2	22%	General Physics I	75%
General Chemistry 1	17%	Technical Physics	25%
Applied Physics 1	22%		
Applied Physics 2	11%		

MAJOR COURSES

TAG Courses
*DC Circuits

*Digital Electronics

*AC Circuits

*Microprocessors

*Electronics

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
*DC Circuits	89%	*DC Circuits	75%
*Digital Electronics	78%	*Digital Electronics	100%
*AC Circuits	94%	*AC Circuits	75%
*Microprocessors	44%	*Microprocessors	100%
*Electronics	61%	*Electronics	75%
*Programmable Logic Controllers	39%	*Programmable Logic Controllers	75%
Programmable Controller	44%	DC Circuits *(not TAG approved)*	25%
Digital Electronics *(not TAG approved)*	11%	AC Circuits *(not TAG approved)*	25%

[1] Every institution except Clark State, Hocking, North Central, Rio, and Terra

[2] Cleveland, UC, UT, and YSU. Miami has a BS in Applied Science in Electrical and Computer Engineering Technology that is a completion program.

*Programmable Logic Controllers	Microprocessor Systems *(not TAG approved)*	17%	Electronics Principles *(not TAG approved)*	25%
	Electronics 1 *(not TAG approved)*	11%	Introduction to Engineering Technology	50%
	AC Circuits *(not TAG approved)*	11%		
	DC Circuits *(not TAG approved)*	11%		
	Introduction to Engineering	22%		
	Introduction to Engineering Technologies	17%		
	C Programming	17%		
	Circuit Analysis 2	11%		
	Communication Electronics	11%		
	Direct Current Circuit Analysis	11%		
	Electrical Machinery	11%		
	Electronic Devices and Circuits	11%		

Mechanical Engineering Technology

	Two-Year Institution	Four-Year Institution
	17 (AAS)[3]	*5 (BS)*[4]

MATHEMATICS GENERAL EDUCATION

Recommended Courses
College Algebra
and
Trigonometry
or
Pre-Calculus

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
College Algebra	29%	Trigonometry	40%
Trigonometry	29%	Pre-Calculus	40%
Pre-calculus	18%	Technical/Applied Calculus 1	40%
Technical Math	24%	Calculus I	40%
Technical Mathematics II	12%	Business Calculus	20%
Calculus 1	6%	College Algebra	20%

ARTS AND HUMANITIES GENERAL EDUCATION

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
Any course	41%	Any Course	80%
NONE	24%	Engineering Ethics	20%
Critical Thinking	12%		
Ethics	12%		

SOCIAL SCIENCES GENERAL EDUCATION

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
Any	53%	Any Course	80%
NONE	18%	Microeconomics	20%
Microeconomics	12%	Macroeconomics	20%
Macroeconomics	6%		

NATURAL AND PHYSICAL SCIENCE GENERAL EDUCATION

Recommended Courses
General Physics 1 w/lab

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
General Physics I (algebra-based)	77%	General Physics I	80%
General Physics II (algebra-based)	24%	General Physics II	20%
Algebra-based OR Calculus-based Physics I & II	6%	General Chemistry 1	100%
Applied Physics I	12%	Technical Physics I	20%
General Physics	6%	Technical Physics II	20%
Chemistry	12%		

MAJOR COURSES

TAG Courses
*Statics

*Strength of Materials

*Fluid Mechanics

*Manufacturing Processes

Two-Year Institution		Four-Year Institution	
Course Name	*Frequency*	*Course Name*	*Frequency*
*Statics	88%	*Statics	80%
*Strength of Materials	88%	*Strength of Materials	40%
*Fluid Mechanics	47%	*Fluid Mechanics	80%
*Manufacturing Processes	59%	*Manufacturing Processes	60%
*CAD	94%	*CAD	80%
*Engineering Materials	65%	*Engineering Materials	
*Manufacturing Processes OR Machine Tools	6%	Engineering Materials *(not TAG approved)*	40%

[3] Every institution except Belmont, Hocking, Lorain, Owens, Rio, and Southern State

[4] Cleveland, Kent, UC, UT, and YSU. UAkron has a BS in MET and Miami has a BSAS in MET that are both a completion programs for students who have an AAS in MET.

*CAD *Engineering Materials	Statics and Strength of Materials (combined course)	12%	CAD *(not TAG approved)*	20%
	Fluid Mechanics/Hydraulics & Pneumatics (not TAG approved)	24%	Manufacturing Processes *(not TAG approved)*	20%
	Engineering Materials (not TAG approved)	6%	Strength of Materials *(not TAG approved)*	40%
	Introduction to Engineering /Tech	47%	Introduction to Engineering /Tech	60%
	Introduction to MET	6%		

Civil/Construction Engineering Technology

	Two-Year Institutions		Four-Year Institutions	
	10 (AAS)[5]		*3 (BS)[6]*	
MATHEMATICS GENERAL EDUCATION Recommended Courses College Algebra or Pre-Calculus	**Two-Year Institutions**		**Four-Year Institutions**	
	Course Name	*Frequency*	*Course Name*	*Frequency*
	Pre-Calculus	30%	Technical Calculus I	67%
	Trigonometry	30%	Applied Calculus II	67%
	College Algebra	20%	Applied Calculus I	33%
	Technical Mathematics I	20%	Technical Calculus II	33%
	Technical Mathematics II	20%		
ARTS AND HUMANITIES GENERAL EDUCATION	**Two-Year Institutions**		**Four-Year Institutions**	
	Course Name	*Frequency*	*Course Name*	*Frequency*
	Any Course	40%	Any Course	33%
	History of Architecture	20%	Engineering Ethics	33%
	AH or Social Science course	20%	Western/World Civilization I	33%
	None	20%	Western/World Civilization II	33%
SOCIAL SCIENCES GENERAL EDUCATION	**Two-Year Institutions**		**Four-Year Institutions**	
	Course Name	*Frequency*	*Course Name*	*Frequency*
	Any Course	40%	Any Course	67%
	Macroeconomics	10%	American Urban Society	33%
	None	30%	Survey of Basic Economics	33%
NATURAL AND PHYSICAL SCIENCE GENERAL EDUCATION Recommended Courses General Physics I	**Two-Year Institutions**		**Four-Year Institutions**	
	Course Name	*Frequency*	*Course Name*	*Frequency*
	General Physics I	70%	General Physics I	67%
	Environmental Science	10%	General Physics II	33%
	Any Course	10%	Allied Health Chemistry	33%
	Applied Physics I	10%	Technical Physics	33%
	Applied Physics 2	10%		
FOREIGN LANGUAGE	**Two-Year Institutions**		**Four-Year Institutions**	
	Course Name	*Frequency*	*Course Name*	*Frequency*
	n/a		n/a	
MAJOR COURSES TAG Courses *Surveying *Construction Methods and Materials *Soils *Construction Materials Testing	**Two-Year Institutions**		**Four-Year Institutions**	
	Course Name	*Frequency*	*Course Name*	*Frequency*
	*Surveying	50%	*Surveying	67%
	*Construction Methods and Materials	50%	*Surveying or Site Engineering	33%
	*Soils	30%	*Soils	100%
	*Construction Materials Testing	20%	*Construction Methods and Materials	100%
	Construction Estimating	40%	*Construction Materials Testing	100%
	Surveying *(not TAG approved)*	40%	Plan Reading	67%
	Construction Methods and Materials (not TAG	10%	Construction Management	100%

[5] COTC, Cincinnati State, CSCC, Tri-C, Lakeland, Lorain, Northwest, Sinclair, Stark State, and Zane State

[6] UAkron, UT, and YSU

	approved)			
	Soils (not TAG approved)	30%	Construction Estimating	100%
	Construction Materials Testing (not TAG approved)	30%	Hydraulics	67%
	Computer Aided Design	80%	Intro to Engineering Technology	67%
	Strength of Materials	60%		
	Statics	40%		
	Statics & Strength of Materials	30%		
	Construction Safety	10%		