

**YSU Dept of Electrical and Computer Engineering**  
**Traditional Option**  
**Curriculum Course List**

**Elect & Comp Engin (ECEGR)**

1521	Basic Comp & Dig Circuits	3 ( )
1521L	Basic Comp & Dig Cir Lab	1 ( )
2611	Instr & Comp Lab 1 (T*)	1 ( )
2612	Instr & Comp Lab 2 (W*)	1 ( )
2632	Basic Circuit Theory 1 (T)	3 ( )
2633	Basic Circuit Theory 2	3 ( )
3709	Communication Systems	3 ( )
3711	Intermediate Lab 1 (W)	1 ( )
3712	Intermediate Lab 2 (O*)	1 ( )
3731	Digital Systems 1	3 ( )
3741	Electromagnetic Fields 1	3 ( )
3742	Electromagnetic Fields 2	3 ( )
3771	Digital & Analog Circs 1	3 ( )
3772	Digital & Analog Circs 2	3 ( )
4803	Linear Control Systems	3 ( )
4811	Senior Laboratory	1 ( )
4844	Electromag Energy Conversion	3 ( )
4899	Senior Design Project (CA*)	4 ( )
_____		( )
_____		( )
_____		( )
_____		( )
_____		( )
	ECEGR Electives**	<u>9 ( )</u>
		<b>52 ( )</b>

\*\* Chosen from approved 3700 or higher courses.

**Mathematics**

MATH 1571	Calculus 1 (MA*)	4 ( )
MATH 1572	Calculus 2 (ST*)	4 ( )
MATH 2673	Calculus 3	4 ( )
MATH 3705	Differential Equations	3 ( )
MATH 3715	Discrete Math	<u>3 ( )</u>
		<b>18 ( )</b>

**Science**

CHEM 1515	Gen Chem 1 (NS*)	4 ( )
PHYS 2610	Gen Physics 1 (NS)	4 ( )
PHYS 2610L	Gen Physics Lab 1	1 ( )
PHYS 2611	Gen Physics 2 (NS)	4 ( )
	Elective***	<u>3 ( )</u>
		<b>16 ( )</b>

\*\*\* Chosen from approved Science courses.

**Writing & Speech**

COMST 1545	Comm Thry & Prac	3 ( )
ENGL 1550	Writing 1	3 ( )
ENGL 1551	Writing 2	<u>3 ( )</u>
		<b>9 ( )</b>

**General Education\***

ECON 2610	Principles 1 (SI)	3 ( )
PHIL 2625	Intro Prof Ethics (PS)	3 ( )
	(AL)	3 ( )
	(AL)	3 ( )
	(SI)	3 ( )
	(AL or SI)	3 ( )
	(PS)	<u>3 ( )</u>
		<b>21 ( )</b>

**Engineering**

ENGR 1550	Intro to Engin 1	3 ( )
ENGR 1560	Intro to Engin 2	3 ( )
CEEGR 2601	Statics	3 ( )
MECH 2641	Dynamics	3 ( )
ISEGR 3710	Engin Statistics	<u>3 ( )</u>
		<b>15 ( )</b>

\* General Education codes are as follows:

- AL: Artistic & Literary Perspective
- CA: Capstone
- MA: Mathematics
- NS: Natural Science
- PS: Personal & Social Responsibility
- SI: Societies and Institutions
- ST: Selected Topics & Electives
- T: Critical Thinking Intensive
- O: Oral Intensive
- W: Writing Intensive

**Total Hours**

**131 ( )**