

College of Science, Technology, Engineering & Mathematics

How can you complete
up to **30** Credit
HOURS
in **College Credit Plus**
that count towards your future major?

Majors include:

Biochemistry, Biological Sciences, Biology Pre-Med, Biology Pre-Vet, Biology Physical Therapy Track, Chemistry, Chemistry Pre-Dental, Chemistry Pre-Pharmacy, Computer Science, Engineering: Chemical, Civil & Environmental, Electrical, Industrial & Systems, Mechanical, Engineering Technology (2 & 4 yr degrees): Civil & Construction, Mechanical and Electrical Technology, Environmental Sciences, Forensic Science, Information Technology, Mathematics, Physics

Courses listed are recommended based on degree requirements for the college. Not all courses are offered at the high school. High school options will vary.

Specific general education courses may be required for the major. Some courses may have a pre-requisite. View the course catalog (catalog.ysu.edu), or schedule an appointment with your academic advisor (contact information below) for more information.

All STEM Majors Complete:

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THE MATH CLASS YOU NEED DEPENDS ON YOUR MAJOR

Information Technology

Math 1552 (4 ch) preferred, or Math 1570 or 1571

Biology (excluding Pre-Med/Vet majors)

Math 1571 (4ch) preferred or
1570: Applied Calculus I (4 ch)

All other majors (including Pre-Med/Vet)

Math 1571: Calculus I (4 ch)

4 ch
3 ch
3 ch
3 ch



IF NOT CALC READY, STUDENTS COMPLETE THE FOLLOWING PRIOR TO MATH 1571 (BASED ON PLACEMENT TEST RESULTS):

MATH 1510/11: College Algebra/Trigonometry 4+3 ch
- or -

MATH 1513: Pre-Calculus 5 ch

*May need additional math depending on major

2

General Education Course Options:

Choose **three to four**, at least one in each category

Social & Behavioral Sciences

HIST 1501:	American Dreams	3 ch
HIST 1500:	Discovering World History	3 ch
PSYC 1560:	General Psychology	4 ch
ECON 2610:	Principles I: Microeconomics	3 ch

Natural Sciences

BIOL 2601/L:	Molecules and Cells w/Lab	3+1 ch
CHEM 1515/L:	General Chem I w/Lab	3+1 ch
ENST 1500/L:	Intro to Enviro Studies w/Lab	3+1 ch
PHYS 1501/L:	Fundamentals 1/Lab	4+1 ch

General Education Electives

ENTC 1510:	History of Engineering	3 ch
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Introductory Major Courses:

Select **one to three** courses based on your major

ASTR 1504:	Descriptive Astronomy	3 ch
ASTR 2609:	Moon and Planets	3 ch
BIOL 2602/L:	Organisms and Cells w/Lab	3+1 ch
CHEM 1501:	Intro to Chemistry	3 ch
CHEM 1516/L:	General Chemistry II w/Lab	3+1 ch
CSIS 1590:	Survey of Computer Science & Info Systems	3 ch
CSIS 1595/L:	Fundamentals of Programming & Problem Solving 1	2+1 ch
CSIS 2610/L:	Prog & Problem Solving	4+1 ch

ENST 2600/L:	Fndtns of Enviro Studies w/lab	3+1 ch
ENTC 1505:	Engineering Tech Concepts	4 ch
FSCI 1510:	Survey of Forensic Science	3 ch
GEOL 1500:	Environmental Geology	4 ch
GEOL 1505/L:	Physical Geology w/ Lab	4 ch
MATH 1572:	Calculus 2	4 ch
MATH 2673:	Calculus 3	4 ch
PHYS 2610/L:	General Physics I w/Lab	4+1 ch
PHYS 2611/L:	General Physics II w/Lab	4+1 ch



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Questions?

STEM CCP Academic Advisor:

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CCP Staff: ccp@ysu.edu

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