

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, Geology, Information Technology (Application Development Concentration, Database, E-Commerce, Multi-media, Network, Security), Mathematics, Physics, Physics/Astronomy, Pre-Medical

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:

ENGL 1549:	Writing I with support	4 ch
or ENGL 1550:	Writing I	3 ch
ENGL 1551:	Writing II	3 ch
CMST 1545:	Communications Foundations	3 ch



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)



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



General Education Course Options:

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

Social Science

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

Arts & Humanities

ENGL 2618:	American Literature & Diversity	3 ch
MUHL 2621:	Music Literature & Appreciation	3 ch
PHIL 2625:	Intro to Professional Ethics	3 ch
PHIL 2626:	Engineering Ethics	3 ch

Science

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 I/Lab	4+1 ch



Introductory Major Courses:

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

ASTR 1504:	Descriptive Astronomy	3 ch	ENST 2600/L:	Fndtns of Enviro Studies w/lab	3+1 ch
ASTR 2609:	Moon and Planets	3 ch	ENTC 1505:	Engineering Tech Concepts	4 ch
BIOL 2602/L:	Organisms and Cells w/Lab	3+1 ch	FSCI 1510:	Survey of Forensic Science	3 ch
CHEM 1501:	Intro to Chemistry	3 ch	GEOL 1500:	Environmental Geology	4 ch
CHEM 1516/L:	General Chemistry II w/Lab	3+1 ch	GEOL 1505/L:	Physical Geology w/ Lab	4 ch
CSIS 1590	Survey of Computer Science & Info Systems	3 ch	MATH 1572:	Calculus 2	4 ch
CSIS 1595	Fundamentals of Programming & Problem Solving 1	3 ch	MATH 2673:	Calculus 3	4 ch
CSIS 2610:	Prog & Problem Solving	4 ch	PHYS 2610/L:	General Physics I w/Lab	4+1 ch
			PHYS 2611/L:	General Physics II w/Lab	4+1 ch

YOUNGSTOWN STATE UNIVERSITY



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Questions?

STEM CCP Academic Advisor:

Debora Kurcharski, dlkucharski@ysu.edu

CCP Staff: ccp@ysu.edu

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