

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, Data Engineering, 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:	<i>Writing I with support</i>	4 ch
or ENGL 1550:	<i>Writing I</i>	3 ch
ENGL 1551:	<i>Writing II</i>	3 ch
CMST 1545:	<i>Communications Foundations</i>	3 ch



THE MATH CLASS YOU NEED DEPENDS ON YOUR MAJOR

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

Geology
Math 1570: Applied Calculus (4 ch)

Biology (excluding Pre-Med/Vet majors) and Environmental Studies
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:	<i>College Algebra/Trigonometry</i>	4+3 ch
	- or -	
MATH 1513:	<i>Pre-Calculus</i>	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:	<i>American Dreams</i>	3 ch
HIST 1500:	<i>Discovering World History</i>	3 ch
PSYC 1560:	<i>General Psychology</i>	4 ch
ECON 2610:	<i>Principles I: Microeconomics</i>	3 ch

Arts & Humanities

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

Science

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



Introductory Major Courses:

Select one to three courses based on your major

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

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

YOUNGSTOWN STATE UNIVERSITY



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Questions?

STEM CCP Academic Advisor:

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