



Cleveland State University 15 and 30 Credit Pathways

Please note: These pathways are intended only as a guide, and are subject to change. Enrollment in classes may be dictated by high school graduation requirements, student test/placement scores, completion of prerequisite courses, and course availability. Students will meet with their CCP advisor to ensure appropriate registration.

Business*

(Accounting, General Business, Business Economics, Finance, Information Systems, International Business, Management, Marketing, Operations Supply Chain Management)

15 Credit Pathway

Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 148 Mathematics for Business Majors I	3		M/QL
Spring Semester			
ENG 102 English II	3		W/C
MTH 149 Mathematics for Business Majors II	4		M/QL
BUS 151 The World of Business	3	X	

30 Credit Pathway

Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 148 Mathematics for Business Majors I	3		M/QL
BUS 151 The World of Business	3	X	
Natural Science with Lab elective	4		NS
General Education requirement: AH, AH NonUS, SS NonUS	3		SS or AH
Spring Semester			
ENG 102 English II	3		W/C
MTH 149 Mathematics for Business Majors II	4		M/QL
IST 203 Software Tools for Personal Productivity	3	X	
General Education requirement: AH, AH NonUS, SS NonUS	3		SS or AH
General Education requirement: Diversity	3		DIV

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Gen Ed Key:

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M/QL = Mathematics/Quantitative Literacy Requirement (two courses)

NS = Natural Sciences (two courses, one of which must have a lab)

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NOTE: Social Science elective completed with macro/microeconomics.

Business: Computer and Information Science*

15 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 167 or 168 PreCalculus I or II; MTH 181 Calculus I	3 or 4		M/QL
Spring Semester			
ENG 102 English II	3		W/C
MTH 168 PreCalculus II; MTH 181 Calculus I; MTH 182 Calculus II	3 or 4		M/QL
CIS 151 Invitation to Computing	3	X	

30 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 167 or 168 PreCalculus I or II; MTH 181 Calculus I	3 or 4		M/QL
CIS 151 Invitation to Computing	3	X	
General Education requirement: AH, AH NonUS, SS, SS NonUS	3 - 6		SS or AH
Spring Semester			
ENG 102 English II	3		W/C
MTH 168 PreCalculus II; MTH 181 Calculus I; MTH 182 Calculus II	3 or 4		M/QL
CIS 260 Introduction to Programming	3	X	
General Education requirement: AH, AH NonUS, SS, SS NonUS	3		SS or AH
General Education requirement: Diversity	3		DIV

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Education*

15 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 116 or MTH 127 or MTH 325	3		M/QL
Spring Semester			
ENG 102 English II	3		W/C
MTH 117 or MTH 128 or MTH 326	4		M/QL
PSY 220 or PSY 221 Child or Adolescent Psych.	3		SS

30 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 116 or MTH 127 or MTH 325	3		M/QL
PSY 220 Child Psychology	3		SS
Natural Science with Lab elective	4		NS
General Education requirement: AH, AH NonUS, SS NonUS	3 - 6		SS, AH, NS
Spring Semester			
ENG 102 English II	3		W/C
MTH 117 or MTH 128 or MTH 326	4		M/QL
PSY 221 Adolescent Psychology	3		
General Education requirement: AH, AH NonUS, SS NonUS, Natural Science	3 - 6		SS, AH, NS
General Education requirement: Diversity	3		DIV

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NOTE: Math, AH, AH NonUS, SS NonUS, and Natural Science General Education requirements may be determined by particular education focus

Engineering*
(Chemical, Civil, Computer, Electrical, Mechanical)

15 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 167 or 168 PreCalculus I or II; MTH 181 Calculus I	3 or 4		M/QL
Spring Semester			
ESC 102 Tech. Writing & Prof. Comm. or ENG 102	3		W/C
MTH 168 PreCalculus II; MTH 181 Calculus I; MTH 182 Calculus II	3 or 4		M/QL
MCE 180 CAE Lab I, ESC 152 Programming with Matlab, or ESC 151 C Programming**	2 or 3	X	

30 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 167 or 168 PreCalculus I or II; MTH 181 Calculus I	3 or 4		M/QL
MCE 180 CAE Lab I, ESC 152 Programming with Matlab, or ESC 151 C Programming**	2 or 3	X	
CHM 161 Preparatory Chemistry or CHM 261/266 General Chemistry and Lab	3 - 4		NS
Spring Semester			
ESC 102 Tech. Writing & Prof. Comm. or ENG 102	3		W/C
MTH 168 PreCalculus II; MTH 181 Calculus I; MTH 182 Calculus II	3 or 4		M/QL
PHY 241 University Physics (if enrolled in MTH 182)	5	X	NS
General Education requirement: AH NonUS, SS NonUS	3		SS or AH
General Education requirement: Diversity	3		DIV

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**Course selection determined by engineering area of interest

Math, Chemistry, and Physics course eligibility is determined by student SAT/ACT or placement exam

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Liberal Arts and Social Sciences*

15 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
Math	3 - 4		M/QL
Spring Semester			
ENG 102 English II	3		W/C
Math	4		M/QL
Elective or General Education Requirement: AH, AH NonUS, SS, SS NonUS	3		

30 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
Math	3 - 4		M/QL
Elective	3		
General Education requirement: AH, AH NonUS, SS NonUS, Natural Science	3 - 6		SS, AH, NS
Spring Semester			
ENG 102 English II	3		W/C
Math	3 - 4		M/QL
Natural Science with Lab elective	4		NS
General Education requirement: AH, AH NonUS, SS, SS NonUS	3		SS, AH
Elective	3		

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*** Math, AH, AH NonUS, SS, SS NonUS, and Natural Science General Education requirements may be determined by particular Liberal Arts and Social Sciences focus**

Nursing*

15 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 116 Foundations of Quantitative Literacy	3		M/QL
Spring Semester			
ENG 102 English II	3	X	W/C
PSY 101 Introduction to Psychology	3	X	SS
BIO 106/107 Human Bio. in Health & Disease or 266/267 Human Anatomy & Physiology; or CHM 161 Preparatory Chemistry or CHM 251/256 College Chemistry and Lab	3 - 4	X	NS

30 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 116 Foundations of Quantitative Literacy	3		M/QL
PSY 101 Introduction to Psychology	3	X	SS
BIO 106/107 Human Bio. in Health & Disease or 266/267 Human Anatomy & Physiology; or CHM 161 Preparatory Chemistry or CHM 251/256 College Chemistry and Lab	3 - 4	X	NS
General Education Requirement: AH NonUS, SS NonUS	3		SS or AH
Spring Semester			
ENG 102 English II	3		W/C
MTH 147 Statistical Concept with Apps	3	X	M/QL
268/269 Human Anatomy & Physiology II; or CHM 251/256 or 252/257 College Chemistry and Lab I or II	3 - 4	X	NS
General Education requirement: AH NonUS, SS NonUS	3		SS or AH
General Education requirement: Diversity	3		DIV

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Science/Pre-Professional*

15 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 147 Statistics; MTH 167 or 168 PreCalculus I or II; MTH 181 Calculus I**	3 or 4		M/QL
Science course (see below) - determined by academic goal/major	3 to 5	X	NS
Spring Semester			
ENG 102 English II	3		W/C
MTH 347 Applied Statistics; MTH 168 PreCalculus II; MTH 181 Calculus I; MTH 182 Calculus II**	3 or 4		M/QL
Science course (see below) - determined by academic goal/major	3 to 5	X	NS

30 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 147 Statistics; MTH 167 or 168 PreCalculus I or II; MTH 181 Calculus I**	3 or 4		M/QL
Science course (see below) - determined by academic goal/major	3 to 5	X	NS
General Education Requirement: AH, AH NonUS, SS, SS NonUS	3 - 6		
Spring Semester			
ENG 102 English II	3		W/C
MTH 347 Applied Statistics; MTH 168 PreCalculus II; MTH 181 Calculus I; MTH 182 Calculus II**	3 or 4		M/QL
Science course (see below) - determined by academic goal/major	3 to 5	X	NS
General Education requirement: AH, AH NonUS, SS, SS NonUS	3		SS or AH
General Education requirement: Diversity	3		DIV

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AH, AH NonUS, SS, SS NonUS, General Education requirements may be determined by particular Pre-Professional or Sciences focus

Science/Pre-Professional Pathway Information Continued:

****Appropriate selection of math and science course(s) are determined by students' test placement/readiness, interest, academic goal, and intended science major**

Science Courses

Biology**

BIO 100 Living World (preparation for BIO 200)

BIO 200/201 Introductory Biology and Lab I

BIO 202/203 Introductory Biology and Lab II

Chemistry**

CHM 161 Preparatory Chemistry (preparation for CHM 261)

CHM 251/256 College Chemistry and Lab I

CHM 252/257 College Chemistry and Lab II

CHM 261/266 General Chemistry and Lab I

CHM 262/267 General Chemistry and Lab II

Physics**

PHY 221 College Physics I

PHY 222 College Physics II

PHY 241 University Physics I

PHY 242 University Physics II

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Urban Studies*

15 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 116 Foundations of Quantitative Literacy	3		M/QL
Spring Semester			
ENG 102 English II	3		W/C
UST 200 Intro to Urban Studies	3	X	M/QL
UST 289 Physical Geography	3	X	NS

30 Credit Pathway			
Fall Semester	Credits	Major	Gen Ed
ENG 101 English I	3		W/C
MTH 116 Foundations of Quantitative Literacy	3		M/QL
UST 200 Intro to Urban Studies	3	X	
UST 289 Physical Geography	3	X	NS
UST 250 The City in Film/AH Elective			AH
Spring Semester			
ENG 102 English II	3		W/C
UST 206 Megacities of Asia	3		SS
UST 259 or Science Elective**	3 -4		NS
General Education requirement: AH NonUS, SS	3		SS, AH
General Education requirement: Diversity	3		DIV

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**Environmental Studies majors may elect to take CHM 251/256 or PHY 221

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General Education Courses

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Arts and Humanities

COM 221	Communicating in Personal Relationships
MUS 111	The Enjoyment of Music
MUS 161	Roots of Rock and Soul
THE 111	Introduction to Theatre
UST 250	The City in Film

Arts and Humanities Non-U.S.

HIS 165	Introduction to Latin American History
HIS 175	Introduction to African History
PHL 255	Nonwestern Philosophy: Africa, Latin America, Asia, Middle East
REL 101	Understanding Religion: Africa, Latin America, Asia, Middle East

Social Sciences

ANT 101	Human Biocultural Evolution
COM 101	Principles of Communication
PSC 111	American Government
PSY 101	Introduction to Psychology
PSY 220	Child Development
PSY 221	Adolescent Psychology
SOC 101	Introduction to Sociology
UST 200	Introduction to Urban Studies

Social Sciences Non-U.S.

ANT 275	Ancient Mysteries: Africa, Latin America, Asia, Middle East
COM 201	Communication and Human Relationships in East Asian Societies
SOC 210	Introduction to Sociology of the Third World
UST 206	Megacities in Asia

US Diversity

ANT 100	Human Diversity
SOC 201	Race, Class and Gender
WST 151	Introduction to Women's Studies