



# **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.***

Updated: Spring 2015

## 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
<b>Spring Semester</b>			
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
<b>Spring Semester</b>			
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:

SS = Social Sciences Requirement (2 courses, one of which must be focused outside the US\*\*)

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DIV = Social Diversity Requirement (2 courses; one US Diversity and one African American Exp.)

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
<b>Spring Semester</b>			
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
<b>Spring Semester</b>			
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
<b>Spring Semester</b>			
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
<b>Spring Semester</b>			
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