

# TRANSFER CREDIT EQUIVALENTS FOR ENGINEERING

<u>School</u>	<u>Course Number</u>	<u>Description</u>	<u>Uva Course #</u>
<b><u>ALABAMA COLLEGES</u></b>			
<u>Auburn</u>	ENGR 2050 (3)	Statics (3)	MAE 2300 (3)
<b><u>ARIZONA COLLEGES</u></b>			
<u>Northern Arizona University</u>	CSE 110 (3)	Principles of Programming w/ Java	CS 1110 (3)
<b><u>ARKANSAS COLLEGES</u></b>			
<u>University of Arkansas-Little Rock</u>	SOCI 2300 (3)	Introduction to Sociology	SOC 1010 (3)
<u>University of Central Arkansas</u>	MATH 1592 (5)	Calculus II	APMA 1110 (4)
	MATH 2371 (3)	Calculus III	APMA 2120 (4)
	MATH 3320 (3)	Linear Algebra	APMA 3080 (3)
	MATH 3331 (3)	Ordinary Differential Equa.	APMA 2130 (4)
	MATH 4372 (3)	Statistics	APMA 3120 (3)
<b><u>CALIFORNIA COLLEGES</u></b>			
<u>Fullerton College</u>	MATH 250 AF	Multivariable Calculus	APMA 2120 (4)
<u>Orange Coast College</u>	ECON A170 (3)	Microeconomics	ECON 2010 (3)

### Palomer Community College

CHEM 110 (3)	General Chemistry	CHEM 1610 (3)
CHEM 110L (2)	General Chemistry Lab	CHEM 1611 (1)

### Stanford University

CME 108-01 (3)	Intro to Scientific Computing	CHE 2216 (3)
MSE 249-01 (3)	Economic Growth & Development	ECON 2000T (3)

### UC Berkeley

MATH 53	Multivariable Calculus	APMA 2120 (4)
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## COLORADO COLLEGES

### Front Range Community College

PHYS 212 (5)	Physics: Calculus Based II	PHYS 2415 (3)
		PHYS 2419 (3)

### University of Colorado /Boulder

CS 1150 (3)	Principles of CS	CS 1110 (3)
EBIO 2070 (3)	Principles of Genetics & Developmental Biology	BIOL 3010 (3)

## CONNECTICUT COLLEGES

### Eastern Connecticut State University

CHE 210	Gen. Chemistry I	CHEM 1425 (3)
CHE 211	Gen. Chemistry II	CHEM 1610 (3)
CHE 212	Gen. Chemistry I Lab	CHEM 1429 (1)
CHE 213	Gen. Chemistry II Lab	CHEM 1620 (1)
ECO 200 (3)	Prin of Macroeconomics	ECON 3020 (3)
ECO 201 (3)	Prin of Microeconomics	ECON 3010 (3)
ECO 315 (3)	Govt. and Business	ECON 3000T (3)
ECO 329 (3)	Political Economy Labor	ECON 2000T (3)
ECO 510 (3)	Managerial Economics	ECON 3000T (3)

MAT 244 (4)	Calculus II	APMA 1110 (4)
MAT 310 (3)	Applied Linear Algebra	APMA 3080 (3)
MAT 315 (3)	Probability & Statistics	APMA 3110 (3)
MAT 340 (4)	Calculus III (Vector)	APMA 2120 (4)
MAT 341 (3)	Differential Equations	APMA 2130 (4)

**Fairfield University**

PHYS 1502Q (4)	Physics for Engineers II	PHYS 2415 (3) PHYS 2419 (1)
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**Newark Community College**

SOC 101 (3)	Principles of Sociology	SOC 1010 (3)
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**Purchase College**

ECO 1510 (4)	Intro to Microeconomics	ECON 2010 (3)
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**Sacred Heart University**

EC 202 (3)	Principles of Microeconomics	ECON 2010 (3)
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**University of Connecticut**

MATH 1132Q (4)	Calculus II	APMA 1110 (4)
MATH 2110Q(4)	Multivariable Calculus	APMA 2120 (4)
MATH 3160 (4)	Probability	APMA 3100 (3)
MATH 3435 (4)	Differential Equations	APMA 2130 (4)

**University of Hartford**

CS 114 (4)	Intro to Computer Prog.	CS 1110 (3)
EC 110 (3)	Macroeconomics	ECON 3020 (3)
EC 211 (3)	Microeconomics	ECON 2010 (3)
M 145 (4)	Calculus II	APMA 1110 (4)
M 220 (3)	Linear Algebra	APMA 3080 (3)
M 242 (3)	Differential Equations	APMA 2130 (4)

**DELAWARE COLLEGES**

**Delaware State University**

MAT 283 (4)	Multivariate Calculus	APMA 2120 (4)
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PHYS 202 (4)	General Physics II (4)	PHYS 2415 (3) PHYS 2419 (1)
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**Stanton Community College**

ECO 111 (3) ECO 122 (3)	Macroeconomics Microeconomics	ECON 2020 (3) ECON 2010 (3)
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MAT 253 (3) MAT 282 (4) MAT 283 (4) MAT 288 (4) MAT 291 (4)	Discrete Math Calculus II Multivariable (Cal. III) Linear Algebra Ordinary Diff. Equations	CS 2102 (3) APMA 1110 (4) APMA 2120 (4) APMA 3080 (3) APMA 2130 (3)
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SPA 133 (3)	Spanish 101	SPAN 1010 (3)
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**University of Delaware**

MATH 210 (3) MATH 302 (3)	Discrete Math Ordinary Diff. Equations	APMA 2102 (3) APMA 2130 (3)
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**FLORIDA COLLEGES**

**Edison State College**

PHY 2049 (4) PHY 2049L (1)	General Physics II General Physics II Lab	PHYS 2415 (3) PHYS 2419 (1)
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**Embry-Riddle Aeronautical University**

CS 223 (3) MA 242 (4) PS 150 (3) SS 120 (3)	Scientific Programming Calc & Analytical Geo Physics I for Engineers American History	CS 1110 (3) APMA 1110 (4) PHYS 1425 (3) HIUS 2010 (3)
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**Florida State University**

ACG 2021 (3) ECO 2023 (3) PHY 2049c (5)	Intro to Financial Accounting Principles of Microeconomics General Physics	COMM 2010 (3) ECON 2010 (3) PHYS 2415 (3)
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**Jacksonville University**

ARH 476 (3)  
ART 476 (1-4) var.

Art & Architecture of Paris  
Spec. Topics in Art Studio

ARTH 1000T (3)  
ARTS 2000T (4)

**Manatee Community College-Bradenton**

PHY 2048C (3)  
PHY 2048L (1)  
PHY 2049C (3)  
PHY 2049L (1)

Gen. Physics w/Calc I  
Gen. Physics w/Calc I Lab  
Gen. Physics w/Calc II  
Gen. Physics w/Calc I Lab

PHYS 1425 (3)  
PHYS 1429 (1)  
PHYS 2419 (1)  
PHYS 2419 (1)

**Palm Beach State College**

ACG 2022 (4)  
ECO 2013 (3)

Financial Accounting  
Macroeconomics

COMM 2010 (3)  
ECON 2020 (3)

**University of Florida - Gainesville**

ACG 2021 (4)

Intro to Financial Accounting

COMM 2010 (3)

**GEORGIA COLLEGES****Georgia Institute of Technology**

AE 2120 (3)  
CHBE 2120 (3)  
ISYE 3770 (3)  
MATH 2401 (4)  
ME 3322 (3)  
PHYS 2212 (3)

Intro to Mechanics (Statics)  
CHE Numerical Methods  
Statistics & Applications  
Calculus III  
Thermodynamics  
Physics II

CE 2300 (3)  
CHE 2216 (3)  
APMA 3110 (3)  
APMA 2120 (4)  
CHE 2202 (3)  
PHYS 2415 (3)

**Georgia Perimeter College - Decatur/Dunwoody**

ACCT 2101 (3)  
ECON 2105 (3)  
MATH 2633 (3)  
PHYS 2212 (3)  
PHYS 2212L (1)

Principles of Accounting I: Financial  
Principles of Microeconomics  
Calculus III  
Principles of Physics II  
Physics II Lab

COMM 2010 (3)  
ECON 2020 (3)  
APMA 2120 (4)  
PHYS 2415 (3)  
PHYS 2419 (1)

**Georgia State University**

MATH 2215 (4)  
PHYS 2212K (4)

Multivariable Calculus  
Principles of Physics II  
Principles of Physics II Lab

APMA 2120 (4)  
PHYS 2415 (3)  
PHYS 2419 (1)

**Shorter University**

MAT 4180 (4)

Probability Theory

APMA 3100 (3)

**Southern Polytechnic State University**ENGR 2214 (3)  
ME 3410 (3)Statics  
ThermodynamicsMAE 2300 (3)  
MAE 2100 (3)**IDAHO COLLEGES****University of Idaho**

SPAN 101 (4)

Elementary Spanish I

SPAN 1010 (4)

**ILLINOIS COLLEGES****College of DuPage**

CIS 2571 (4)

Intro to Programming

CS 1110 (3)

**College of Lake County**

MTH 146 (4)

Calculus and Analytical Geometry II

APMA 1110 (4)

**Loyola University of Chicago**CHEM 223 (3)  
CHEM 225 (1)Organic Chemistry  
Organic Chem. LabCHEM 2410 (3)  
CHEM 2421 (1)**Oakton Community College - Des Plaines**MAT 252 (4)  
MAT 260 (3)Calculus III  
Linear AlgebraAPMA 2120 (4)  
APMA 3080 (4)**Parkland College**

PHY 142 (4)

University Physics II

PHYS 2415 (3)  
PHYS 2419 (1)**University of Chicago**

HIST 31900 (3)

History of Strategy

STS 2000T (3)

**University of Illinois - Urbana**MATH 231 (4)  
MATH 241 (4)  
MATH 461 (3)Calculus II  
Calculus III  
Probability TheoryAPMA 1110 (4)  
APMA 2120 (4)  
APMA 3100 (3)

## INDIANA COLLEGES

### College of Lake County, Grays Lake IL

Chemistry 123 (5)

Chemistry II

CHEM 1620 (3)  
CHEM 1621 (3)

### Purdue University

CINS 221  
E 201 (3)  
E 202 (3)

Software Development  
Microeconomics  
Macroeconomics

CS 2110 (3)  
ECON 2010 (3)  
ECON 2020 (3)

## KANSAS COLLEGES

### Johnson County Community College

MATH 254 (4)  
MATH 246 (3)

Differential Equations  
Linear Algebra

APMA 2130 (4)  
APMA 3080 (3)

## LOUISIANA COLLEGES

### Louisiana State University

CHEM 2261 (3)  
MATH 2057 (3)  
Hist 2057 (3)  
Ital 1001 (4)

Organic Chemistry  
Calculus III  
US: 1865 to Present  
Elementary Italian

CHEM 2410 (3)  
APMA 2120 (4)  
HIUS 2020 (4)  
ITAL 1010 (3)

### Louisiana Tech

ECON 1203 (3)  
MATH 2134 (4)  
MATH 245 (3)

Microeconomics  
Calculus III  
Differential Equations

ECON 2010 (3)  
APMA 2120 (4)  
APMA 2130 (4)

### Loyola University of New Orleans

ECON B100 (3)

Principles of Microeconomics

ECON 2010 (3)

### University of New Orleans

ECON 1203 (3)  
MATH 2134 (4)

Microeconomics  
Calculus II

ECON 2010 (3)  
APMA 2120 (4)

# MARYLAND COLLEGES

## Anne Arundel Community College

BPA 211 (3)  
ECO 212 (3)  
MAT 201 (4)

Principles of Accounting I  
Principles of Economics II  
Multivariable Calculus

COMM 2010 (3)  
ECON 2020 (3)  
APMA 2120 (4)

## College of Southern Maryland

MTH 1210 (4)

Calculus II

APMA 1110 (4)

## Howard Community College

MATH 182 (4)  
MATH 220 (3)  
MATH 240 (4)  
MATH 250 (4)  
MATH 260 (3)

Calculus II  
Discrete Structures  
Calculus III  
Linear Algebra  
Differential Equations

APMA 1110 (4)  
CS 2102 (3)  
APMA 2120 (4)  
APMA 3080 (4)  
APMA 2130 (4)

SPAN 101 (4)

Elementary Spanish

SPAN 1020 (3)

## Johns Hopkins University

MATH 302 (4)

Diff Equations with Applications

APMA 2130 (4)

## Montgomery College, Rockville MD

CH 101 (4)

Principles of Chemistry  
Chemistry I Lab

CHEM 1610 (3)  
CHEM 1611 (1)

CH 102 (4)

Principles of Chem II  
Chemistry II Lab

CHEM 1620 (3)  
CHEM 1621 (1)

MA 280 (3)  
MA 282 (3)  
MA 284 (3)

Multivariable Calculus  
Differential Equations  
Linear Algebra

APMA 2120 (4)  
APMA 2130 (4)  
APMA 3080 (3)

## Townson University

COSC 236 (4)

Intro to Cosc I

CS 1110 (3)

MATH 274 (4)  
MATH 275 (4)  
MATH 330 (4)

Calculus II  
Calculus III  
Intro to Statistical Methods

APMA 1110 (4)  
APMA 2120 (4)  
APMA 3120 (3)



**United States Naval Academy**

MATH 374 (4)	Ordinary Differential Equations	APMA 2130 (4)
PHYS 242 (4)	General Physics II	PHYS 2415 (3) PHYS 2419 (1)
EE 301 (4) ECE 302 (4)	Electrical Fundamentals Digit Comm and Comp	ECE 2630 (3) ECE 2000T (3)
HH 205 (3) FP 130 (3)	Western Civilization US Gov & Constitution	HIEU 2001 (3) PLAP 101 (3)
FS 301 (3) FS 304 (3) FS 412 (3)	Advanced Spanish Advanced Spanish Contemporary Latin	SPAN 3000T (3) SPAN 3000T (3) SPAN 4710 (3)
NE 203 (3)	Ethics & Moral Reason	PHIL 1000T (3)
SC 111 (4)	Found. Of Chem I Chem I Lab	CHEM 1610 (3) CHEM 1611 (1)
SC 112 (4)	Found. Of Chem II Chem II Lab	CHEM 1620 (3) CHEM 1621 (1)
SI 204 (4) SI 221 (3) SI 262 (3) SI 304 (3) SI 311 (3) SI 332 (3) SI 411 (3) SI 420 (3)	Intro to Comp Sci Data Structures Discrete Structures Programming Lang. Advanced Programming Intro to Comp Architecture Operating Systems Artificial Intelligence	CS 1110 (3) CS 2110 (3) CS 2150 (3) CS 4610 (3) CS 2330 (3) CS 3330 (3) CS 4414 (3) CS 4710 (3)
SM 121 (4) SM 122 (4) SM 162 (5) SM 221 (4)	Calculus I Calculus II Calc with Computers II Calculus III	APMA 1090 (4) APMA 1110 (4) APMA 1110 (4) APMA 2120 (4)

SM 223 (4)	Calc III w/Optimization	APMA 2120 (4)
SM 230 (3)	Probability	APMA 3100 (3)
SP 211 (4)	General Physics I	PHYS 1425 (3)
	Physics I Lab	PHYS 1429 (1)
SP 212 (4)	General Physics II	PHYS 2415 (3)
	Physics II Lab	PHYS 2419 (1)

**University of Maryland - Baltimore County**

MATH 225 (3)	Ordinary Differential Eq.	APMA 2130 (4)
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**University of Maryland - College Park**

CHBE101	Material&Energy Balances	CHE 2215 (3)
	Intro to Chemical and Biomolecular Engr	
CHBE250	Modeling & Simulation	CHE 2216 (3)
CHBE 301	Thermodynamics I	CHE 2202 (3)
CHEM 146/147 (4)	Prin. Of General Chemistry	CHEM 1610 (3)
	Chemistry Lab	CHEM 1611 (1)
CHEM 237 (4)	Organic Chemistry I	CHEM 2410 (3)
	Chem Lab I	CHEM 2411 (1)
CHEM 247 (4)	Organic Chemistry II	CHEM 2420 (3)
	Chem Lab II	CHEM 2421 (1)
ECON 200	Prin. Of Micro-Economics	ECON 2010 (4)
ENEE 324 (3)	Eng. Probability	APMA 3100 (3)
MATH 141 (4)	Calculus II	APMA 1110 (4)
MATH 241 (4)	Multivariable Calc. III	APMA 2120 (4)
MATH 246 (3)	Differential Equations	APMA 2130 (3)
STAT 400 (3)	Intro to Prob Theory	APMA 3100 (3)
PHYS 142 (4)	Physics II	PHYS 2415 (3)
		PHYS 2419 (1)
PHYS 171 (3)	Principles of Physics I	PHYS 1425 (3)

PHYS 174 (1)  
PHYS 260 (3)

Physics I Lab  
Physics II

PHYS 1429 (1)  
PHYS 2415 (3)

## **MASSACHUSETTS COLLEGES**

### **Boston College**

MA 02101 (3)

Financial Accounting

COMM 2010 (3)

### **Boston University**

CAS MA 225 (4)

Multivariable Calculus

APMA 2120 (4)

### **Harvard University**

MATH S-216 (4)  
STAT S-110 (4)

Linear Algebra and Differential Eq  
Introduction to Probability

APMA 3080 (3)  
APMA 3100 (3)

### **University of Massachusetts**

MATH 132 (4)  
MATH 233 (3)  
MATH 235 (3)  
MATH 245 (4)

Calculus II  
Multivariable Calc.  
Linear Algebra  
Differential Equations

APMA 1110 (4)  
APMA 2120 (4)  
APMA 3080 (3)  
APMA 2130 (3)

## **MICHIGAN COLLEGES**

### **Michigan State University**

PHY 184B (4)

University Physics II

PHYS 2415 (3)  
PHY 2419 (1)

## **MISSISSIPPI COLLEGES**

### **Mississippi State University**

MA 3253 (3)  
PH 2223 (3)

Differential Equations  
Physics II

APMA 2130 (4)  
PHYS 2415 (3)

## **MISSOURI COLLEGES**

### **Missouri University of Science and Technology - Rolla MO**

PHY 155 (4)

General Physics II  
General Physics II Lab

PHYS 2415 (3)  
PHYS 2419 (1)

University of Missouri

MATH 2000 (5)

Calculus III

APMA 2120 (4)

**NEW HAMPSHIRE COLLEGES**

University of New Hampshire at Manchester

MATH 527 (4)

Differential Equations

APMA 2130 (4)

**NEW JERSEY COLLEGES**

Brookdale Community College

ECON 105 (3)

Macroeconomics

ECON 2020 (3)

ECON 106 (3)

Microeconomics

ECON 2010 (3)

PHYS 122 (4)

General Physics II

PHYS 2415 (3)

PHYS 2419 (1)

Burlington County College, Pemberton NJ

BIOL 120 (3)

Biol 120

BIOL 2010 (3)

CHE 117 (3)

Chemistry II

CHEM 1620 (3)

MATH 220 (4)

Calculus III

APMA 2120 (4)

Burlington Community College, Mt. Laurel

ACC 112 (4)

Principles of Financial Accounting

COMM 2010 (3)

ECO 203 (3)

Principles of Microeconomics

ECON 2010 (3)

MTH 230 (3)

Differential Equations

APMA 2130 (4)

The College of New Jersey, Ewing Township

PHY 202

General Physics II

PHYS 2415 (3)

County College of Morris

MAT 131 (4)

Calculus I

APMA 1090 (4)

MAT 132 (4)

Calculus II

APMA 1111 (4)

MAT 230 (4)

Calculus III

APMA 2120 (4)

MAT 232 (3)

Differential Equations

APMA 2130 (4)

Glouster County College

COM 102

English Composition II

ENLT 1000T (3)

HIS 103 (3)	History of the US I	HIUS 2001 (3)
HIS 104 (3)	History of the US II	HIUS 2002 (3)
MAT 108	Calculus I	APMA 1090 (4)
MAT 122	Calculus II	APMA 1110 (4)
MAT 202	Differential Equations	APMA 2130 (4)
MAT 221	Calculus III	APMA 2120 (4)

**New Jersey Institute of Technology**

MATH 146 (4)	Calculus II	APMA 1110 (4)
MATH 211 (4)	Multivariable Calculus	APMA 2120 (4)
MATH 222 (4)	Differential Equations	APMA 2130 (4)
MATH 327 (3)	Probability & Statistics	APMA 3110 (3)
MATH 337 (3)	Linear Algebra	APMA 3080 (3)

**Ocean County College**

CHEM 181 (4)	General Chemistry I General Chemistry I Lab	CHEM 1610 (3) CHEM 1611 (1)
PHYS 171 (1)	Physics I Lab	PHYS 1429 (1)
PHYS 172 (1)	Physics II Lab	PHYS 2419 (1)
ENGL 151 (3)	English I	ENGL 1000T (3)
ENGL 152 (3)	English II	ENGL 1000T (3)
HIST 171 (3)	Western Civil I	HIST 1000T (3)
HIST 172 (3)	Western Civil II	HIST 1000T (3)

PSYC 172 (3)	General Psychology	PSYC 1010 (3)
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MATH 265 (4)	Calculus I	APMA 1090 (3)
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**Rowan College**

ECO 204-176 (3)	Principles of Macroeconomics	ECON 2020 (3)
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**Rutgers University**

MATH 136 (4)	Calculus II	APMA 1110 (4)
MATH 235 (4)	Calculus III	APMA 2120 (4)

MATH 327 (3)	Prob & Statistics	APMA 3110 (3)
MATH 473 (3)	Numerical Analysis	APMA 5070 (3)
MATH 640:250 (3)	Linear Algebra	APMA 3080 (3)

**Stockton University**

BIOL 1200 (4)	Cells & Molecules	BIOL 2100 (4)
LANG 1220 (4)	Beginning Latin I	LATI 1010 (4)
LANG 1221 (4)	Beginning Latin II	LATI 1020 (4)
MARS 2202 (4)	Intro to Oceanography	EVSC 2050 (4)

**William Paterson University**

CHEM 0510 (1)	Organic Chem I	CHEM 2411 (1)
CHEM 0520 (1)	Organic Chem II	CHEM 2421 (1)

**NEW MEXICO COLLEGES**

**Santa Fe Community College**

ECON 201 (3)	Principles of Microeconomics	ECON 2010 (3)
MATH 267 (3)	Applied Differential Equations	APMA 2130 (4)

**NEW YORK COLLEGES**

**Bard College**

BIO 101 (4)	Intro to General Bio I w/Lab	BIOL 2100 (4)
BIO 102 (4)	Intro to General Bio II w/Lab	BIOL 2200 (4)
MATH 111 (4)	Calculus I	APMA 1090 (4)
MATH 112 (4)	Calculus II	APMA 1110 (4)
PHYS 101 (4)	Physics I w/Lab	PHYS 1425 (3)
		PHYS 1429 (1)
PHYS 102 (3)	Physics II w/Lab	PHYS 2415 (3)
		PHYS 2419 (1)

**Borough of Manhattan Community College**

MATH 303 (4)	Calculus III and Analytic Geometry	MATH 2130 (4)
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**Fordham University**

MATH 2004 (4)	Calculus III	APMA 2120 (4)
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	ECON 1200 (3)	Microeconomics	ECON 2010 (3)	
<b><u>Hofstra University</u></b>	MATH 72 (4)	Calculus II	APMA 1110 (4)	
	MATH 73 (4)	Calculus III	APMA 2120 (4)	
	PHYS 11A (3)	Gen. Physics I	PHYS 1425 (3)	
	PHYS 11B (1)	Gen. Phys. I Lab	PHYS 1429 (1)	
	PHYS 12A (3)	Gen. Physics II	PHYS 2415 (3)	
	PHYS 12B (1)	Gen Phys II Lab	PHYS 2419 (1)	
<b><u>Hudson Valley Community College</u></b>	CHEM 110 (4)	General Chemistry I Chem Lab I	CHEM 1610 (3) CHEM 1611 (1)	
	CHEM 111 (4)	General Chemistry II Chem Lab II	CHEM 1620 (3) CHEM 1621 (1)	
	CHEM 210 (4)	Organic Chemistry I Organic Chem Lab I	CHEM 2410(3) CHEM 2411 (1)	
	CHEM 211 (4)	Organic Chemistry II Organic Chem Lab II	CHEM 2420 (3) CHEM 2421 (1)	
	MATH 190 (4)	Calculus II	APMA 1110 (4)	
	MATH 210 (4)	Calculus III	APMA 2120 (4)	
	MATH 220 (4)	Differential Equations	APMA 2130 (4)	
		CHM 4 (4)	Intro Chemistry	CHEM 1620 (3) CHEM 1621 (1)
	<b><u>Manhattan College</u></b>	MATH 104 (3)	Calculus II	APMA 1110 (4)
		MATH 201 (3)	Calculus III	APMA 2120 (4)
MATH 203 (3)		Differential Equations	APMA 2130 (4)	
MATH 215 (3)		Linear Algebra	APMA 3080 (3)	
MATH 216 (3)		Discrete Math	CS 2102 (3)	
<b><u>Monroe Community College</u></b>	MTH 211 (4)	Calculus II	APMA 1110 (4)	
	MTH 212 (4)	Calculus III	APMA 2120 (4)	

MTH 220 (3)	Discrete Math	CS 2102 (3)
MTH 225 (4)	Differential Equations	APMA 2130 (4)
MTH 230 (4)	Linear Algebra	APMA 3080 (3)
PHY 154 (4)	General Physics I	PHYS 1425 (3)
	General Phy I Lab	PHYS 1429 (1)
PHY 155 (4)	General Physics II	PHYS 2415 (3)
	General Phy II Lab	PHYS 2419 (1)

**Nassau Community College**

MAT 122	Calculus I	APMA 1090 (4)
MAT 123	Calculus II	APMA 1110 (4)
MAT 225 (4)	Multivariable Calculus	APMA 2120 (4)
ECO 208 (3)	Principles of Microeconomics	ECON 2010 (3)

**New York University**

V59-0010	Intensive Elem. Italian	ITAL 1010 (4)
V59-0020	Intensive Inter. Italian	ITAL 2010 (3)
Math-UA 233 (4)	Theory of Probability	APMA 3100 (3)
PHYS-UAR (5)	General Phys II	PHYS 2415 (3)
	General Phys II Lab	PHYS 2419 (1)

**Onondaga Community College**

MAT 263 (4)	Calculus III	APMA 2120 (4)
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**Purchase College State University**

MATH 1510 (4)	Calculus II	APMA 1110 (4)
MATH 1520 (4)	Computer Sci I	CS 1110 (3)
MATH 1540 (4)	Computer Sci II	CS 2110 (3)

**Stony Brook University**

MATH 203 (4)	Calculus III	APMA 2120 (4)
AMS 210 (3)	Appl. Linear Algebra	APMA 3080 (3)

**Syracuse University**

MAT 295 (4)	Calculus I	APMA 1090 (4)
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**University at Buffalo**

CHM 112 (4)

Intro Chemistry

CHEM 1620 (3)  
CHEM 1621 (1)**University of Rochester**

MATH 142 (4)

Calculus II

APMA 1110 (4)

MATH 150 (3)

Discrete Mathematics

APMA 2102 (3)

MATH 163 (4)

Differential Equations

APMA 2130 (4)

**Westchester Community College**

MATH 230 (4)

Calculus III

APMA 2120 (4)

**NORTH CAROLINA COLLEGES****North Carolina A&T State University**

CHEN 300 (3)

Fluid Mechanics

BME 3240 (3)

**NC State University**

CH 101 (4)

Chem Molecular Sci I  
Chem Molecular Sci LabCHEM 1610 (3)  
CHEM 1611 (1)

CH 102 (4)

Chem Quantitative Sci II  
Chem Molecular Sci LabCHEM 1620 (3)  
CHEM 1621 (1)

CH 221 (3)

Organic Chemistry I  
Organic Chem Lab ICHEM 2410 (3)  
CHEM 2411 (1)

CSC 116 (3)

Intro to Comp Sci.

CS 1110 (3)

EC 201 (3)

Microeconomics

ECON 2010 (3)

EC 202 (3)

Macroeconomics

ECON 2020 (3)

MA 241 (4)

Calculus I I

APMA 1110 (4)

MA 242 (4)

Multivariable Calculus

APMA 2120 (4)

PY 205 (4)

Physics Engr. Sci I  
Physics Engr Lab IPHYS 1425 (3)  
PHYS 1429 (1)

PY 208 (4)

Physics Eng Sci II  
Physics Engr Lab IIPHYS 2415 (3)  
PHYS 2419 (1)

### University of North Carolina - Chapel Hill

CHEM 101 (3)	Gen. Chemistry I Gen Chem Lab II	CHEM 1610 (3) CHEM 1611 (1)
CHEM 102 (3)	Gen. Chemistry II Gen Chem Lab II	CHEM 1620 (3) CHEM 1621 (1)
CHEM 221 (3)	Organic Chemistry I	CHEM 2410 (3)
CHEM 222 (1)	Organic Chem Lab I	CHEM 2411 (1)
CHEM 223 (3)	Organic Chemistry II	CHEM 2420 (3)
CHEM 224 (1)	Organic Chem Lab II	CHEM 2421 (1)
CHEM 431 (3)	Physical Chemistry I	CHEM 3810 (3)
CHEM 433 (3)	Physical Chemistry II	CHEM 3820 (3)
MA 241 (4)	Calculus II	APMA 1110 (4)
MA 242 (4)	Multivariable Calculus	APMA 2120 (4)
POLI 100 (3)	Intro to Government	PLAP 1010 (3)

### UNC - Charlotte, NC

MATH 2164 (3)	Linear Algebra	APMA 3080 (3)
CHEM 1252 (3)	General Chemistry II	APMA 1620 (3)

## OHIO COLLEGES

### Shawnee State University

MATH 2120 (4)	Calculus II	APMA 1110 (4)
MATH 2130 (4)	Calculus III	APMA 2120 (4)
MATH 2300 (3)	Linear Algebra	APMA 3080 (3)
MATH 3100 (3)	Ordinary Diff. Equations	APMA 2130 (4)
MATH 3610 (3)	Probability	APMA 3100 (3)

### University of Cincinnati

MATH 252 (4)	Calculus II	APMA 1110 (4)
MATH 256 (1)	Cal II Lab	
MATH 253 (4)	Calculus III	APMA 2120 (4)
MATH 257 (1)	Calculus III Lab	
MATH 273 (5)	Differential Equations	APMA 2130 (4)

**University of Toledo**

MATH 2850 (4)      Multivariable Calculus      APMA 2120 (4)

**Xavier University**

MATH 171 (4)      Calculus II      APMA 1110 (4)  
MATH 220 (4)      Calculus III      APMA 2120 (4)  
MATH 240 (3)      Linear Algebra      APMA 3080 (3)  
MATH 256 (3)      Probability & Statistics      APMA 3110 (3)

**PENNSYLVANIA COLLEGES**

**Bucks County Community College**

PHYS 122 (4)      Physics II      PHYS 2415 (3)  
PHYS 2419 (1)

**Community College of Philadelphia**

CHEM 110 (4)      Chemistry I      CHEM 1610 (3)  
Chemistry I Lab      CHEM 1611 (1)

**Lehigh Carbon Community College**

MAT 195 (3)      Calc & Analy Geometry II      APMA 1110 (4)  
MAT 200 (3)      Calculus III      APMA 2120 (4)  
MAT 230 (3)      Differential Equations      APMA 2130 (4)

**Penn State University**

MATH 230 (4)      Calculus and Vector Analysis      APMA 2120 (4)  
MATH 251 (4)      Ordinary & Partial Differential Eq.      APMA 2130 (4)

ME 320 (3)      Fluid Mechanics      MAE 3210 (3)

PHYS 211 (4)      General Physics I      PHYS 1425 (3)  
General Physics Lab      PHYS 1429 (1)

PHY 212 (4)      General Physics II      PHYS 2415 (3)  
General Physics II Lab      PHYS 2419 (1)

STS 200 (3)      Critical Issues in STS      STS 2500 (3)

**University of Pennsylvania - Philadelphia**

CHEM 241 910 (3)	Organic Chem I	CHEM 2410 (3)
CHEM 241 920 (3)	Organic Chem II	CHEM 2420 (3)

**University of Pittsburgh**

CHEM 0330 (1)	Organic Chem Lab I	CHEM 2411 (1)
CHEM 0340 (1)	Organic Chem Lab II	CHEM 2421 (1)

**West Chester University**

PHYS 0175 (4)	General Physics II	PHYS 2415 (3)
PHYS 0219 (2)	General Physics II Lab	PHYS 2419 (1)

CHEM 103 (3)	Chemistry I	CHEM 1610 (3)
CRL 103 (1)	Chem Lab I	CHEM 1611 (1)
CHEM 104 (3)	Chemistry II	CHEM 1620 (3)
CRL 104 (1)	Chem Lab II	CHEM 1621 (1)
CHEM 231 (3)	Organic Chemistry	CHEM 2410 (3)
CRL 231 (1)	Organic Chem Lab I	CHEM 2411 (1)

ECO 112 (3)	Microeconomics	ECON 2010 (3)
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**RHODE ISLAND COLLEGES****Roger Williams University**

ECON 101	Principles of Macroeconomics	ECON 2020 (3)
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**SOUTH CAROLINA COLLEGES****College of Charleston**

CSCI 221 (3)	Software Development Methods	CS 2210 (3)
CSCI 340 (3)	Operating Systems I	CS 4414 (3)

**University of South Carolina**

ECON 221	Microeconomics	ECON 3010 (3)
ECON 222	Macroeconomics	ECON 3020 (3)

MATH 142 (4)	Calculus II	APMA 1110 (4)
MATH 241 (3)	Vector Calculus	APMA 2120 (4)

PHY 212 (3)                      General Physics II                      PHYS 2415 (3)

## **TENNESSEE COLLEGES**

### **East Tennessee State University**

PHYS 2120 (4)                      Tech Phys II - Calc Based                      PHYS 2415 (3)  
PHYS 2419 (1)

### **Lipscomb University**

CM 2211                      Organic Chemistry Lab I                      CHEM 2411 (3)  
CM 2221                      Organic Chemistry Lab II                      CHEM 2421 (3)  
CM 2113                      Organic Chemistry Lecture I                      CHEM 2410 (3)  
CM 2123                      Organic Chemistry Lecture II                      CHEM 2420 (3)

### **Nashville State Community College**

PHYS 2120 (4)                      Tech Phys II - Calc Based                      PHYS 2415 (3)  
PHYS 2419 (1)

### **University of Tennessee**

CHEM 350 (3)                      Organic Chemistry I                      CHEM 2410 (3)  
MATH 1530                      Probability & Statistics                      APMA 3110 (3)  
SOC 120 (3)                      Sociology in Modules                      SOC 1010 (3)

### **SW Tennessee Community College, Memphis**

PHYS 2120 (4)                      Physics II                      PHYS 2415 (3)

## **TEXAS COLLEGES**

### **Houston Community College**

MATH 2320 (3)                      Differential Equations                      APMA 2130 (4)  
CHEM 1412 (4)                      General Chemistry II                      CHEM 1620 (3)  
CHEM 1621 (1)

### **Lone Star College**

MATH 2415 (4)                      Calculus III                      APMA 2120 (4)

### **Rice University**

MATH 142 (4)                      Calculus II                      APMA 1110 (4)

	MATH 212 (3)	Multivariable Calculus	APMA 2120 (4)
<b><u>Tarrant County College</u></b>	ECON 2302 (3) MATH 2315 (3)	Microeconomics Calculus III	ECON 2010 (3) APMA 2120 (4)
<b><u>Texas Tech University</u></b>	ECON 2302 (3)	Principles of Economics	ECON 2010 (3)
	Hist. of Span 3351	Imperial Span & Portugal	HIEU 2000T (3)
	MAE 2100 (3) MAE 2301 (3)	Thermodynamics Statics	MAE 2100 (3) MAE 2300 (3)
	MATH 2415 (4)	Calculus III w/applications	APMA 2120 (4)
<b><u>University of Houston</u></b>	MATH 2433	Calculus III	APMA 2120 (4)
<b><u>University of Texas, San Antonio</u></b>	ECO 2013 (3) ECO 2023 (3)	Macroeconomics Microeconomics	ECON 3020 (3) ECON 3010 (3)
	MATH 1223 (4) MATH 2214 (4)	Calculus II Calculus III	APMA 1110 (4) APMA 2120 (4)
	MUHL 1308 (3)	Music	MUSI 1000T (3)
	PHY 1903 (3) PHY 1911 (1) PHY 1923 (3) PHY 1931 (1)	Engr. Physics I Engr. Physics Lab I Engr. Physics II Engr Physics Lab II	PHYS 1425 (3) PHYS 1429 (1) PHYS 2415 (3) PHYS 2419 (1)
<b><u>Wharton County Jr. College</u></b>	MUSI 1306 (3)	Music Appreciation	MUSI 1010 (3)

## UTAH COLLEGES

### Brigham Young University

PHY 121 (3)

Physics I

PHYS 1425 (3)

PHY 123 (3)

Physics II

PHYS 2415 (3)

### Weber State University

CS 1400 (4)

Fundamentals of Programming

CS 1110 (3)

## VIRGINIA COLLEGES

### Blue Ridge Community College

MATH 285 (3)

Linear Algebra

APMA 3080 (3)

ENG 111 (3)

College Comp I

STS 1000T (3)

ENG 112 (3)

College Comp II

STS 1000T (3)

### Central Virginia Community College

ACC 211 (4)

Principles of Accounting

COMM 2010 (3)

CHM 111 (4)

Chemistry for Engineers I

CHEM 1610 (3)

Chem I Lab

CHEM 1611 (1)

CSC 201 (4)

Introduction to Programming

CS 1110 (3)

CSC 202 (4)

Software Development Methods

CS 2110 (3)

MTH 173 (4)

Calculus I

APMA 1090 (4)

MTH 174 (4)

Calculus II

APMA 1110 (4)

MTH 277 (4)

Multivariable Calculus

APMA 2120 (4)

### Christopher Newport University

CPSC 231

Computer Programming

CS 1110 (3)

CPSC 231L

CS Lab

ENGR 121 (3)

Intro to Engineering

ENGR 1620 (4)

ENGL 103H	Persuasive Writing	STS 1000T (3)
ENGL 104H	Interpretative Writing	STS 1000T (3)
MATH 140 & 240 (4)	Calc & Anal Geo Intr. Calc	APMA 1110 (4)
PHYS 201 (3)	General Physics I	PHYS 1425 (3)
PHYS 201L (1)	General Physics I lab	PHYS 1429 (1)
PHYS 202 (3)	General Physics II	PHYS 2415 (3)
PHYS 202L (1)	General Physics II lab	PHYS 2419 (1)

**College of William & Mary**

ANTH 114 (3)	Society & Politics in Cross-Cultural Perspective	ANTH 2565 (3)
CLCV 205 (3)	Greek & Roman Mythology	CLAS 2040 (3)
CSCI 141 (3)	Intro to Computer Science	CS 1110 (3)
CSCI 141L (1)		
ECON 101 (3)	Microeconomics	ECON 2010 (3)
GOVT 203 (3)	Comparative Politics	PLCP 1010 (3)
GOVT 204 (3)	International Politics	PLIR 1010 (3)
MATH 230 (4)	Calculus III	APMA 2120 (4)
MATH 302 (3)	Ordinary Diff. Equations	APMA 2130 (4)
PHIL 303 (3)	Ethics	PHIL 3710 (3)

**Danville Community College**

EGR 248 (3)	Thermodynamics for Engineering	MAE 2100 (3)
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**George Mason University**

BIO 103 (4)	Intro to Biology I	BIOL 2100 (4)
BIO 104 (4)	Intro to Biology II	BIOL 2200 (4)
CHEM 211 (4)	College Chemistry I	CHEM 1610 (3)



CHEM 212 (4)	Chemistry Lab I General Chemistry w/ Lab	CHEM 1611 (1) CHEM 1620 (3) CHEM 1621 (1)
CHEM 315 (2) CHEM 318 (2)	Organic Chemistry Lab I Organic Chemistry Lab II	CHEM 2411 (3) CHEM 2421 (3)
CS 112 (4) CS 211 (3) CS 450 (3)	Computer Science I Computer Science II Database Concepts	CS 1110 (3) CS 2110 (3) CS 4750 (3)
ECE 280 (5) ECE 201 (3) ECE 333 (3)	Electric Circuit Analysis Intro to Electrical Engr Linear Electronics I	ECE 2630 (3) ECE 2000T (3) ECE 3630 (3)
ECON 103 (3) ECON 104 (3) ECON 306 (3) ECON 310 (3) ECON 311 (3) ECON 410 (3) ECON 415 (3)	Microeconomics Macroeconomics Microeconomics Money & Banking Macroeconomics Public Choice Law and Economics	ECON 2010 (3) ECON 2020 (3) ECON 3010 (3) ECON 3030 (3) ECON 3020 (3) ECON 3330 (3) ECON 4080 (3)
ENGR 107 (2) ENGR 210 (3)	Intro to Engineering Statics	ENGR 1620 (4) MAE 2300 (3)
MATH 114 (4) MATH 116 (4) MATH 125 (3) MATH 203 (3) MATH 213 (3) MATH 214 (3) MATH 215 (3) MATH 351 (3) MATH 478 (3)	Calc w/Analytical Geometry Calc 2/Analytical Geometry Discrete Mathematics Linear Algebra Analy Geo and Calculus Differential Equations Vector Calculus (Multi) Probability Intro to Part. Diff. Equations	APMA 1110 (4) APMA1110 (4) APMA 2102 (3) APMA 3080 (3) APMA 2120 (4) APMA 2130 (4) APMA 2120 (4) APMA 3100 (3) APMA 3140 (3)

STAT 344 (3)	Probability/Stat for Engr.	APMA 3110 (3)
OR 335 (3)	Discrete Sys Modeling/Sim	SYS 3062 (3)
OR 442 (3)	Stochastic Operations Research	SYS 3060 (3)
PHY 160 (3)	University Physics I	PHYS 1425 (3)
PHY 161 (1)	Lab I	PHYS 1429 (1)
PHY 260 (3)	University Physics II	PHYS 2415 (3)
PHY 261 (1)	Lab II1	PHYS 2419 (1)
PSYC 100 (3)	Basic Concepts Psych	PSYC 1010 (3)
SYST 101 (3)	Systems Engr Concepts	SYS 2001 (3)
SYST 210 (3)	Systems Design	SYS 2000T (3)
SYST 220 (3)	Dynamical Systems I	SYS 2000T (4)
SYST 221 (1)	Systems Modeling Lab	
SYST 470 (3)	Human Machine Interface	SYS 3023 (3)

**Germana Community College**

BIO 101 (4)	Gen Biology I	BIOL 2100 (4)
CHM 111 (4)	College Chem I	CHEM 1610 (3)
		CHEM 1611 (1)

**J. Sargeant Reynolds Community College**

ACC 211 (3)	Financial Accounting	COMM 2010 (3)
CHM 111 (4)	College Chemistry I	CHEM 1610 (3)
		CHEM 1611 (1)
CHM 112 (4)	College Chemistry II	CHEM 1620 (3)
		CHEM 1621 (1)
CSC 201 (4)	Computer Science I	CS 1110 (3)
ECO 201 (3)	Macro Economics	ECON 2020 (3)
ECO 202 (3)	Micro Economics	ECON 2010 (3)

EGR 115 (2), 123 (2) 124 (3)	Intro to Engr.	ENGR 1620 (4)
EGR 140 (3)	Statics	MAE 2300 (3)
EGR 246 (3)	Mechanics of Materials	MAE 2310 (3)
ENG 111 (3)	College Composition I	STS 1000T (3)
ENG 112 (3)	College Composition II	STS 1000T (3)
HIS 121 (3)	US History	HIUS 2001 (3)
MATH 173 (5)	Single Variable Calculus	APMA 1090 (4)
MATH 174 (5)	Calculus II	APMA 1110 (4)
MATH 277 (4)	Multivariable Calculus	APMA 2120 (4)
MATH 279 (4)	Ordinary Diff. Equations	APMA 2130 (4)
PHI 101 (3)	Intro to Philosophy I	PHIL 1000 (3)
PHY 241 (4)	University Physics I	PHYS 1425 (3)
		PHYS 1429 (1)
PHY 242 (4)	University Physics II	PHYS 2415 (3)
		PHYS 2419 (3)
BIOL 114 (4)	Organisms	BIOL 2000T (3)
BIOL 214 (4)	Cell and Molecular Biology	BIOL 3000T (3)
ISAT 480-6004 (3)	Water Management Strategies	CE 3100 (3)
ISAT 480-6001 (3)	Kenya Care Course	HIST 1000T
MATH 236 (4)	Calculus II	APMA 1110 (4)
PHYS 140 (3)	College Physics I	PHYS 1425 (3)
PHYS 140L (1)	General Physics I Lab	PHYS 1429 (1)
PHYS 150 (3)	College Physics II	PHYS 2415 (3)
PHYS 150L (1)	General Physics II Lab	PHYS 2419 (3)

**James Madison University**

	SWA 101 (3)	Elementary Swahili	SWAH 1010 (3)
<b><u>John Tyler Community College</u></b>	MTH 279 (4)	Ordinary Diff. Equations	APMA 2130 (4)
<b><u>Lord Fairfax Community College</u></b>	BIO 101 (4)	General Biology I	BIOL 2100 (4)
	BIO 102 (4)	General Biology II	BIOL 2200 (4)
	ECON 202 (3)	Microeconomics	ECON 2010 (3)
	MTH 173 (5)	Calculus I	APMA 1090 (4)
	MTH 174 (5)	Calculus II	APMA 1110 (4)
	MTH 277 (4)	Vector Calculus	APMA 2120 (4)
	MTH 291 (3)	Differential Equations	APMA 2130 (4)
	PHY 241 (4)	University Physics I	PHYS 1425 (3)
			PHYS 1429 (1)
	PHY 242 (5)	University Physics II	PHYS 2415 (3)
			PHYS 2419 (3)
<b><u>New River Community College</u></b>	BIO 101 (4)	General Biology	BIOL 2100 (4)
	BIO 102 (4)	General Biology II	BIOL 2200 (4)
	CHM 111 (4)	College Chemistry I	CHEM 1610 (3)
			CHEM 1611 (1)
	CHM 112 (4)	College Chemistry II	CHEM 1620 (3)
			CHEM 1621 (1)
	MTH 175 (3)	Calculus of One Variable	APMA 1090 (4)
	MTH 242 (3)	Statistics II	STAT 2120 (3)
	MTH 277 (4)	Vector Calculus	APMA 2120 (4)
	MTH 279 (4)	Differential Equations	APMA 2130 (4)
<b><u>Northern Virginia Community College</u></b>	ACC 211 (3)	Prin. Of Accounting I	COMM 2010 (3)

ACC 212 (3) BUS 100 (3)	Prin. Of Accounting II Intro. to Business	COMM 2020 (3) COMM 1800 (3)
ART 101 (3) ART 121 (4)	Hist. & Appr. Of Art I Drawing I	ARTS 1000T (3) ARTS 1610 (3)
BIO 101 (4) BIO 102 (4)	Intro to Biology I Intro to Biology II	BIOL 2010 (3) BIOL 2020 (3)
CHM 111 (4)	College Chemistry I	CHEM 1610 (3)
CHM 112 (4)	College Chemistry II	CHEM 1611 (1) CHEM 1620 (3) CHEM 1621 (1)
CHM 241 (3) CHM 242 (3) CHM 245 (2) CHM 246 (2) CHM 260 (3)	Organic Chemistry I Organic Chemistry II Organic Chem I Lab Organic Chem II Lab Biochemistry	CHEM 2410 (3) CHEM 2420 (3) CHEM 2411 (2) CHEM 2421 (2) CHEM 2000T
CSC 201 (4) CSC 202 (4) CSC 206 (3) CSC 205	Computer Science I Computer Science II Assembly Language Programming & Data Rep	CS 1110 (3) CS 2110 (4) CS 2000T (3) CS 2330 (3)
ECO 201 (3) ECO 202 (3)	Prin. Of Macroeconomics Prin. Of Microeconomics	ECON 2020 (3) ECON 2010 (3)
EGR 120 (2) EGR 240 (3)	Intro to Engineering Statics	ENGR 1620 (4) CE 2300 (3) /MAE 2300 (3)
EGR 245 (3) EGR 246 (3)	Dynamics Mechanics of Materials	MAE 2320 (3) MAE 2310 (3) /CE 2310 (3)
EGR 248 (3)	Thermodynamics	MAE 2100 (3)

EGR 251 (3) EGR 255 (1) EGR 265	Basic Elec. Circuits I  Digital Logical Design	ECE 2630  ECE 2330 (3)
SPD 100 (3)	Public Speaking	ENSP 1600 (3)
ENG 111 (3) ENG 112 (3)	College Composition I College Composition II	STS 1000T (3) STS 1000T (3)
GER 201 (3)	Intermediate German I	GERM 2010 (3)
HIS 101 (3) HIS 121 (3) HIS 122 (3)	Hist. of West Civilization I US History I US History II	HIEU 2001 (3) HIUS 2001 (4) HIUS 2002 (4)
ITA 103 (3)	Basic Spoken Italian	ITAL 1010 (3)
MTH 173 (5) MTH 174 (5) MTH 242 (3) MTH 243 (3) MTH 244 (3) MTH 277 (4) MTH 285 (3) MTH 286 (4) MTH 291 (3)	Cal. w/Analytical Geom I Cal. w/Analytical Geom II Statistics II Probability & Stat. I Probability & Stat. II Multivariable Calculus Linear Algebra Discrete Math Differential Equations	APMA 1090 (4) APMA 1110 (4) STAT 2120 (3) APMA 3100 (3) APMA 3120 (3) APMA 2120 (4) APMA 3080 (3) CS 2102 (3) APMA 2130 (4)
MUS 111 (4) MUS 112 (4)	Music Theory I Music Theory II	MUSI 3310 (3) MUSI 3320 (3)
PHI 101 (3) PHI 227 (3)	Intro to Philosophy Bio-Medical Ethics	PHIL 1000 (3) PHIL 2720 (3)
PHYS 231 (5)	University Physics I	PHYS 1425 (3)

**Old Dominion University**

PHYS 232 (5)	University Physics II	PHYS 1429 (1) PHYS 2415 (3) PHYS 2419 (1)
PSY 201 (3) PSY 202 (3)	Intro to Psychology Intro to Psychology II	PSYC 1010 (3) PSYC 2000T (3)
REL 246 (3)	Christianity	RELC 1220 (3)
SOC 201 (3)	Introduction to Sociology	SOC 1010 (3)
SPA 101 (3) SPA 201 (3)	Beginning Spanish I Intermediate Spanish	SPAN 1010 (3) SPAN 2010 (3)
CHEM 115N (4)	Chemistry I Chem Lab I	CHEM 1610 (3) CHEM 1611 (1)
CHEM 116N (4)	Chemistry II Chem Lab II	CHEM 1620 (3) CHEM 1621 (1)
CHEM 211 (3)	Organic Chemistry I	CHEM 2410 (3)
CHEM 212 (2)	Organic Chemistry Lab	CHEM 2411 (2)
CHEM 213 (3)	Organic Chemistry II	CHEM 2420 (3)
CHEM 242 (3)	Organic Chemistry II	CHEM 2420 (3)
CHEM 246 (1)	Organic Chem II Lab	CHEM 2421 (1)
CHEM 321 (3)	Analytical Chemistry	CHEM 3000T (3)
CHEM 351 (3)	Inorganic Chemistry	CHEM 4320 (3)
CET 200 CET 220	Statics Strengths of Materials	CE 2300 (3) CE 2310 (3)
ECE 201/287 (5) ECE 202 (3)	Circuit Analysis Signals and Systems	ECE 2630 (3) ECE 3750 (3)
HIST 102 (3) HIST 104 (3)	European History US Hist in a World Setting	HIEU 2001 (3) HIUS 2001 (3)

MATH 212 (4)	Calculus II	APMA 1110 (4)
MATH 312 (4)	Multivariable Calculus	APMA 2120 (4)
MATH 307 (3)	Ordinary Differential Equa.	APMA 2130 (4)
MATH 316 (3)	Intro Linear Algebra	APMA 3080 (3)
MATH 401/501 (3)	Partial Diff Equations	APMA 3140 (3)
ME 303 (3)	Mechanics of Fluids	MAE 3210 (3)
ME 315 (3)	Heat & Mass Transfer	MAE 3140 (3)
PHYS 231N (4)	University Physics I	PHYS 1425 (3)
		PHYS 1429 (1)
PHYS 232N (4)	University Physics II	PHYS 2415 (3)
		PHYS 2419 (1)
SOC 2015 (3)	An Introduction to Sociology	SOC 1010 (3)
ACC 211 (3)	Principals of Acct. I	COMM 2010 (3)
ACC 212 (3)	Principals of Acct. II	COMM 2020 (3)
BIO 101 (4)	General Biology	BIOL 2100 (4)
BUS 100	Introduction to Business	COMM 1800 (3)
CHEM 111 (4)	College Chemistry I	CHEM 1610 (3)
		CHEM 1611 (1)
CHEM 112 (4)	College Chemistry II	CHEM 1620 (3)
		CHEM 1621 (1)
CSC 110	Introduction to Computing	No credit
CSC 201 (4)	Computer Science I	CS 1110 (3)
CSC 202 (4)	Computer Science II	CS 2110 (3)
CSC 205 (4)	Digital Logic Design	CS 2000T (3)
CSC 206 (4)	Assembly Language	CS 2000T (3)

**Piedmont Virginia Community College**



ECON 201 (3)	Macroeconomics	ECON 2020 (3)
ECON 202 (3)	Microeconomics	ECON 2010 (3)
EGR 110-120	Intro to Engineering	ENGR 1620 (4)
EGR 115	Intro to Mechanical Graphics	MAE 2000 (3)
EGR 246/247	Strength of Materials	MAE 2310 (3)
EGR 245	Dynamics	MAE 2320
EGR 248	Thermodynamics	MAE 2100 (3)
EGR 240 (3)	Statics	CE 2300 (3)
ENGL 111 (3)	College Composition	STS 1000T (3)
ENGL 112 (3)	College Composition II	STS 1000T (3)
FRE 101 (4)	Beginning French	FREN 101 (3)
HIST 111 (3)	History of World Civilization I	HIST 2050 (3)
MATH 173 (5)	Calc w/Analy Geo I	APMA 1090 (4)
MATH 174 (5)	Calc w/Analy Geo II	APMA 1110 (4)
MATH 240	Statistics	No credit
MATH 275	Multivariable Calculus	APMA 2120 (4)
MATH 279 (4)	Ordinary Diff. Equations	APMA 2130 (4)
MATH 285 (3)	Linear Algebra	APMA 3080 (3)
PHI 220 (3)	Ethics	PHIL 1000 (3)
PHYS 241 (5)	University Physics I	PHYS 1425 (3)
		PHYS 1429 (1)
PHYS 242 (5)	University Physics II	PHYS 2415 (3)
		PHYS 2419 (1)
SPA 101 (3)	Beginning Spanish I	SPAN 1010 (3)
SPA 202 (3)	Intermediate Spanish II	SPAN 2010 (3)

**Randolph-Macon College**

BIOL 104 (4)	General Biology	BIOL 2010 (3)
CSCI 111 (4)	Intro. To Computer Sci.	CS 1110 (3)
HLT 138 (2)	Principles of Nutrition	BIOL 1060 (3)
MATH 141 (4)	Calc. with Mathematica I	APMA 1090 (4)
MATH 142 (4)	Calc. with Mathematica II	APMA 1110 (4)

**Richard Bland College**

PSYC 201 (3)	General Psychology	PSYC 1010 (3)
PSYC 202 (3)	General Psychology	PSYC 1000T (3)
SOC 201 (3)	General Sociology	SOC 1010 (3)
SOC 204 (3)	Social Problems	SOC 2220 (3)

**Thomas Nelson Community College**

CHM 111 (4)	College Chemistry I	CHEM 1610 (3)
		CHEM 1611 (1)
CHM 112 (4)	College Chemistry II	CHEM 1620 (3)
		CHEM 1621 (1)
CSC 201 (4)	Intro to Programming	CS 1110 (3)
CSC 202 (4)	Software Development Methods	CS 2110 (3)
MTH 174 (4)	Calculus II	APMA 1110 (4)
MTH 277 (4)	Vector Calculus	APMA 2120 (4)
MTH 291 (3)	Ordinary Differential Equa.	APMA 2130 (4)
MTH 285 (3)	Linear Algebra	APMA 3080 (3)
PHY 241 (4)	General Physics I	PHYS 1425 (3)
	General Physics I Workshop	PHYS 1429 (1)
PHY 242 (4)	General Physics II	PHYS 2415 (3)
	General Physics II Workshop	PHYS 2419 (1)

**Tidewater Community College**

CHEM 111 (4)	College Chemistry I	CHEM 1610 (3)
CHEM 112 (4)	College Chemistry II	CHEM 1611 (1) CHEM 1620 (3) CHEM 1621 (1)
CSC 201 (3)	Intro to Computing	CS 1110 (3)
ECO 201(3) ECO 202 (3)	Macroeconomics Microeconomics	ECON 2020 (3) ECON 2010 (3)
EGR 270 (3)	Digital Logic Design	ECE 2330 (3)
MTH 174 (4) MTH 277 (4) MTH 279 (4)	Calculus II Multivariable Calculus Ordinary Diff. Equations	APMA 1110 (4) APMA 2120 (4) APMA 2130 (4)
PHY 241 (4)	University Physics I	PHYS 1425 (3) PHYS 1429 (1)
PHY 242 (4)	University Physics II Physics II Lab	PHYS 2415 (3) PHYS 2419 (1)
PHI 220 (3) PSY 235 (3)	Intro Political Philosophy Child Psychology	PHIL 1730 (3) PSYC 2700 (3)

**UVA Arts & Sciences**

MATH 1310 (4) MATH 1320 (4) MATH 2310 (4)	Calculus I Calculus II Multivariable Calculus	APMA 1090 (4) APMA 1110 (4) APMA 2120 (4)
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**UVA SEAS Study Abroad**

ENGR 4595 (3)	Global Technology Practice	STS 2500 (3)
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**Virginia Commonwealth University**

CHEM 101 (3) CHEZ 101L (1) CHEM 102 (3)	General Chemistry I Gen. Chemistry Lab I General Chemistry II	CHEM 1610 (3) CHEM 1611 (1) CHEM 1620 (3)
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CHEZ 102L (1) CHEZ 301 (2)	Gen. Chemistry Lab II Organic Chemistry Lab I	CHEM 1621 (1) CHEM 2421 (1)
ENGL 101 (3) ENGL 200 (3)	Writing & Rhetoric Work I Writing & Rhetoric Work II	STS 1000T (3) STS 1000T (3)
ENGR 101 (3) ENGR 102 (3)	Intro to Engineering Statics	ENGR 1620 (4) MAE 2300 (3)
INFO 250 (3) INFO 291 (3)	Introduction to Programming Topics in Information Systems	CS 1110 (3) SYS 2000T (3)
MATH 200 (4) MATH 201 (4) MATH 300 (3) MATH 301 (3) MATH 307 (4) MATH 309 (3) MATH 310 (3)	Calculus I Calculus w/Analy Geometry Intro to Mathematical Reasoning Differential Equations Multivariable Calculus Probability Linear Algebra	APMA 1090 (4) APMA 1110 (4) MATH 3000T (3) APMA 2130 (4) APMA 2120 (4) APMA 3100 (3) APMA 3080 (3)
PHIL 222 (3)	Symbolic Logic	PHIL 2420 (3)
PHYS 207 (5)	University Physics I	PHYS 1425 (3) PHYS 1429 (1)
PHYS 208 (5)	University Physics II	PHYS 2415 (3) PHYS 2419 (1)
STAT 314 (4)	Applications of Statistics	APMA 3120 (3)
<b><u>Virginia Highlands Community College</u></b>	PHY 232 (5)	General Physics II General Physics II Lab
		PHYS 2415 (3) PHYS 2419 (1)
<b><u>Virginia Military Institute</u></b>	EC 201 (3) EC 202 (3)	Prin. Of Microeconomics Prin. Of Macroeconomics
		ECON 2010 (3) ECON 2020 (3)

**Virginia State University**

MATH 30121 (3)	Multivariable Calculus	APMA 2120 (4)
PHY 231(5)	General Physics I	PHYS 1425 (3)
		PHYS 1429 (1)
PHY 232 (5)	General Physics II	PHYS 2415 (3)
		PHYS 2419 (1)

**Virginia Tech**

CHEM 1035 (3)	General Chemistry	CHEM 1610 (3)
CHEM 1036 (3)	General Chemistry II	CHEM 1620 (3)
CHEM 1045 (1)	General Chemistry Lab	CHEM 1611 (1)
CHEM 1046 (1)	General Chemistry Lab	CHEM 1621 (1)
CHEM 1074 (3)	Chem for Engineers	CHEM 1610 (3)
CHEM 1084 (1)	Chem Lab	CHEM 1611 (1)
CHEM 2535 (3)	Organic Chemistry	CHEM 2420 (3)
CHEM 2545 (1)	Organic Chem Lab	CHEM 2421 (1)
ECE 3504 (3)	Digital Logic Design	ECE 2330 (3)
ECE 2704 (3)	Signals & Systems	ECE 3750 (3)
ENGL 1105 (3)	Freshman English	STS 1000T (3)
BLST 1714 (3)	Intro to Black Studies	AAS 1010 (3)
PHYS 2305 (4)	Foundations of Physics I	PHYS 1425 (3)
	Physics Lab I	PHYS 1429 (1)
PHYS 2306 (4)	Foundations of Physics II	PHYS 2415 (3)
	Physics Lab II	PHYS 2419 (1)

CS 5114 (3)	Algorithms	CS 4102 (3)
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**Virginia Western Community College**

BIO 101 (4)	General Biology I	BIOL 2100 (4)
BIO 102 (4)	General Biology II	BIOL 2200 (4)
CHM 111 (4)	College Chemistry I	CHEM 1610 (3)

		CHEM 1611 (1)
ECO 201 (3)	Principles of Macroeconomics	ECON 2020 (3)
ECO 202 (3)	Principles of Microeconomics	ECON 2010 (3)
EGR 140 (3)	Engineering Mechanics - Statics	MAE 2300 (3)
EGR 198 (1)	Sem & Proj. in Engineering	ENGR 1621 (1)
EGR 216 (3)	Comput. Methods in Engineering	ENGR 1620 (3)
MTH 175 (3)	Calculus I	APMA 1090 (3)
MTH 176/178 (5)	Calculus II	APMA 1110 (5)
MTH 277 (4)	Calculus III	APMA 2120 (4)

## Washington DC Colleges

### Catholic University

EGR 140-V1 (3)	Statics	MAE 2300 (3)
ENGR 331 (3)	Fluid Mechanics	CE 2210 (3)

### George Washington University

EMSE 6020 (3)	Decision Making with Uncertainty	SYS 2001 (3)
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## WEST VIRGINIA COLLEGES

### West Virginia University

CHEM 233 (3)	Organic Chemistry	CHEM 2410 (3)
CHEM 235 (1)	Organic Chemistry Lab	CHEM 2411 (1)
ECON 201 (3)	Microeconomics	ECON 3010 (3)
ECON 202 (3)	Macroeconomics	ECON 3020 (3)
MATH 156 (4)	Calculus II	APMA 1110 (4)
MATH 170 (3)	Discrete Mathematics	APMA 2102 (3)

MATH 251 (4)	Multivariable Calculus	APMA 2120 (4)
MATH 261 (4)	Differential Equations	APMA 2130 (4)
PHYS 111 (4)	General Physics I Gen Phys Lab I	PHYS 1425 (3) PHYS 1429 (1)
PHYS 112 (4)	General Physics II Gen Phys Lab II	PHYS 2415 (3) PHYS 2419 (1)

## **WISCONSIN COLLEGES**

### **University of Wisconsin**

MATH 233 (4)	Calculus & Analytic Geom	APMA 2120 (4)
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### **Marquette University**

CHEM 2111 (4)	Organic Chemistry I	CHEM 2410 (3)
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## **INTERNATIONAL COLLEGES**

### **Bogazici University**

MATH 202 (4)	Differential Equations	APMA 2130 (4)
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### **Danish Institute for Study Abroad**

Sustainable Tech & Climate Change	EVSC 2030 (3)
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### **Florida State University, Panama**

PHY 2049c	General Physics B, Calculus Based	PHYS 2415 (3)
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### **Intec. Santo Domingo, Dominican Republic**

CBF 203/204	Physics III/IV	PHYS 2419 (1) PHYS 2415 (3) PHYS 2419 (1)
CBM 203 (5)	Differential Equations	APMA 2130 (4)

### **London School of Economics**

EC 101 (3)	Introductory Microeconomics	ECON 2010 (3)
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### **Lund University**

FYSN17/FMFn01 (3)	Quantum Mechanics I Environmental Economics Developmental Economics	PHYS 3650 (3) ECON 3000T ECON 3000T
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**Technical University of Dortmund**

Biotechnological Processes Unrestricted (1)  
Biochemical Reaction Engineering Technical (3)  
Introductory German Language GERM 1010 (3)  
Germany-Politics, Culture, Society Unrestricted (1)

**Polytechnic University of Puerto Rico**

Calculus III (4) APMA 2120 (4)

**University of Australia-Sydney**

AMME 2500 (6) Engineering Dynamics MAE 2320 (3)  
AMME 4790 (6) Intro to Biomechanics BME 4550 (3)  
  
AERO 3360 (6) Aerospace Structure I MAE 3310 (3)  
  
BMED 2401 (6) Cellular Foundation of Medical Sciences BME 2104 (3)  
  
EMGG 1960 (6) Introduction to Biomedical Engineering BME 2000 (3)

**University of Puerto Rico**

Calculus III (3) APMA 2120 (3)

**University of Queensland**

AERO 3310 (2) Aero Design and Manufacturing MAE 3310 (3)  
  
ELEC 3100 Fundamentals of Electromagnetic Fields ECE 3209 (3)  
ELEC 3004 Signals, Systems, and Control ECE 3750 (3)  
  
ENGG 1400 Engineering Mech: Statics and Dynamics MAE 2300 (3)  
  
MATH 2000 Calculus and Linear Algebra APMA 3080 (3)  
  
MECH 2305 Intro to Engineering and Design MAE 2000 (3)  
MECH 2210 Dynamics and Orbital Mechanisms MAE 2320 (3)  
MECH 2100 Machine Element Design MAE 3620 (3)  
MECH 2300 Structures and Materials MAE 2310 (3)  
MECH 3410 (2) Fluid Mechanics MAE 3210 (3)



MECH 3100 (2)

Mechanical Systems Design

MAE 4610 (3)

METR 3800/3100

Mechatronic System Design  
Sensors and Actuators

MAE 4710 (3)