

# Transfer Guide between Maricopa Community Colleges and Grand Canyon University



## Bachelor of Science

The following table outlines the coursework from Maricopa Community Colleges that will transfer directly into the core of the Bachelor of Arts Programs with Grand Canyon University. Students will need to complete a minimum of 30 credits with Grand Canyon University. Additionally, students will be required to complete a minimum of 36 Upper Division credits for graduation.

Maricopa Community Colleges	Semester Credits	Grand Canyon University	Semester Credits
<b>Bachelor of Science in Accounting: (Program Major Credits: 68)</b>			
ACC-211 Financial Accounting	3	ACC-250 Financial Accounting	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
MKT-271 Principles of Marketing	3	^ MKT-315 Introduction to Marketing	3
ACC-212 Managerial Accounting	3	ACC-260 Management Accounting	3
GBS-205 Legal, Ethical, and Regulatory Issues in Business	3	^ BUS-340 Ethical and Legal Issues in Business	3
MAT-206 Elements of Statistics	3	^ BUS-352 Business Statistics	3
ECN-212 Microeconomics Principles	3	^ ECN-361 Microeconomics	3
ACC-219 intermediate Accounting I	3	^ ACC-370 Intermediate Accounting I	3
ECN-211 Macroeconomics Principles	3	^ ECN-362 Macroeconomics	3
ACC-220 intermediate Accounting II	3	^ ACC-371 Intermediate Accounting II	3
ACC-221 Tax Accounting	3	^ ACC-460 Taxation	3
<b>Bachelor of Science in Applied Business Analytics: (Program Major Credits: 40)</b>			
MAT-206 Elements of Statistics	3	^ BUS-352 Business Statistics	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
<b>Bachelor of Science in Applied Business Information Systems: (Program Major Credits: 52)</b>			
CSC-180AA Computer Literacy	3	CST-111 Introduction to Computer Science and Information Technology	3
CNT-140AA CISCO Networking Fundamentals	3	ITT-116 Platforms and Network Technologies	3
MAT-206 Elementals of Statistics	3	^ BUS-352 Business Statistics	3
CSC-205 Object Orientated Programming and Data Structures	3	BIT-210 Object-Oriented Programming for Business	3

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<b>Bachelor of Science in Applied Entrepreneurship: (Program Major Credits: 36)</b>			
MKT-271 Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
<b>Bachelor of Science in Applied Management: (Program Major Credits: 36)</b>			
MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
<b>Bachelor of Science in Applied Marketing and Advertising: (Program Major Credits: 40)</b>			
MKT-271 Principles of Marketing	3	^ MKT-315 Introduction to Marketing	3
<b>Bachelor of Science in Behavioral Health Science: (Program Major Credits: 48)</b>			
ASD-100: Foundations of Addictions and Substance Use Disorders	3	PCN-100: Foundations of Addictions and Substance Use Disorders	3
BHS-205: Therapeutic Models and Interventions	3	PCN-107: Introduction to Counseling Theories	3
BHS-215: Therapeutic Group Interventions	3	BHS-240: Group Dynamics and Process	3
BHS-160: Ethical, Legal and Professional Issues in Behavioral Health and Social Service	3	^ BHS-320: Ethics of Behavioral Health Science	3
BHS-185: Cultural and Social Diversity in Behavioral Health and Social Services	3	^ BHS-330: Cultural and Social Diversity in Behavioral Health	3
PSY-240: Developmental Psychology	3	^ BHS-420: Human Development	3
PSY-230: Introduction to Statistics	3	^ PSY-380: Introduction to Probability and Statistics	3
PSY-266: Abnormal Psychology	3	^ PSY-470: Abnormal Psychology	3
CFS-157: Marriage and Family Life	3	^ BHS-430: Introduction to Family Dynamics	3
BHS-175: Introduction to Trauma-Informed Care and Trauma-Focused Caregiving	3	^ BHS-440: Understanding Trauma	3
<b>Bachelor of Science in Behavioral Health Science with an Emphasis in Childhood and Adolescence: (Program Major Credits: 56)</b>			
BHS-210 Addiction, Substance use Disorders, and Relapse Prevention	3	PCN-100 Foundations of Addiction and Substance Use Disorders	3
BHS-205 Therapeutic Models	3	PCN-107 Introduction to Counseling Theories	3
BHS-215 Group Process	3	BHS-240 Group Dynamics and Process	3
BHS-160 Ethical, Legal and Professional Issues in Behavioral Health and Social Service	3	^ BHS-320 Ethics of Behavioral Health Science	3
BHS-185 Cultural and Social Diversity in Behavioral Health and Social Services	3	^ BHS-330 Cultural and Social Diversity in Behavioral Health	3
PSY-240 Developmental Psychology	3	^ BHS-420 Human Development	3
PSY-266 Abnormal Psychology	3	^ PSY-470 Abnormal Psychology	3

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MAT-206 Elements of Statistics	3	^ PSY-380 Introduction to Probability and Statistics	3
CFS-157 Marriage and Family Life	3	^ BHS-430 Introduction to Family Dynamics	3
BHS-175 Introduction to Trauma-Informed Care and Trauma-Focused Caregiving	3	^ BHS-440 Understanding Trauma	3
<b>Bachelor of Science in Behavioral Health Science with an Emphasis in Family Dynamics: (Program Major Credits: 56)</b>			
BHS-210 Addiction, Substance use Disorders, and Relapse Prevention	3	PCN-100 Foundations of Addiction and Substance Use Disorders	3
BHS-205 Therapeutic Models	3	PCN-107 Introduction to Counseling Theories	3
BHS-215 Group Process	3	BHS-240 Group Dynamics and Process	3
BHS-160 Ethical, Legal and Professional Issues in Behavioral Health and Social Service	3	^ BHS-320 Ethics of Behavioral Health Science	3
BHS-185 Cultural and Social Diversity in Behavioral Health and Social Services	3	^ BHS-330 Cultural and Social Diversity in Behavioral Health	3
PSY-240 Developmental Psychology	3	^ BHS-420 Human Development	3
PSY-266 Abnormal Psychology	3	^ PSY-470 Abnormal Psychology	3
MAT-206 Elements of Statistics	3	^ PSY-380 Introduction to Probability and Statistics	3
CFS-157 Marriage and Family Life	3	^ BHS-430 Introduction to Family Dynamics	3
BHS-175 Introduction to Trauma-Informed Care and Trauma-Focused Caregiving	3	^ BHS-440 Understanding Trauma	3
<b>Bachelor of Science in Behavioral Health Science with an Emphasis in Trauma: (Program Major Credits: 56)</b>			
BHS-210 Addiction, Substance use Disorders, and Relapse Prevention	3	PCN-100 Foundations of Addiction and Substance Use Disorders	3
BHS-205 Therapeutic Models	3	PCN-107 Introduction to Counseling Theories	3
BHS-215 Group Process	3	BHS-240 Group Dynamics and Process	3
BHS-160 Ethical, Legal and Professional Issues in Behavioral Health and Social Service	3	^ BHS-320 Ethics of Behavioral Health Science	3
BHS-185 Cultural and Social Diversity in Behavioral Health and Social Services	3	^ BHS-330 Cultural and Social Diversity in Behavioral Health	3
PSY-240 Developmental Psychology	3	^ BHS-420 Human Development	3
PSY-266 Abnormal Psychology	3	^ PSY-470 Abnormal Psychology	3
MAT-206 Elements of Statistics	3	^ PSY-380 Introduction to Probability and Statistics	3
CFS-157 Marriage and Family Life	3	^ BHS-430 Introduction to Family Dynamics	3
BHS-175 Introduction to Trauma-Informed Care and Trauma-Focused Caregiving	3	^ BHS-440 Understanding Trauma	3

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## Bachelor of Science in Biochemistry and Molecular Biology: (Program Major Credits: 76)

BIO-181: General Biology (Majors) I	3	BIO-181: General Biology I <b>AND</b> BIO-181L: General Biology I Lab	3
MAT-187: Pre-Calculus	3	MAT-261: Pre-Calculus	3
MAT-206: Elements of Statistics	3	MAT-274: Probability and Statistics	3
BIO-205: Microbiology <b>AND</b> BIO-205L: Microbiology Lab	4	BIO-205: Microbiology and BIO-205L: Microbiology Lab	4
PHY-111AA: General Physics I	5	PHY-111: General Physics I – Lecture <b>AND</b> PHY-111L: General Physics I – Lab	5
CHM-151: General Chemistry I <b>AND</b> CHM-151LL: General Chemistry I Lab	4	CHM-113 General Chemistry I <b>AND</b> CHM-113L General Chemistry I Lab	4
BIO-245: Cellular and Molecular Biology	4	^ BIO-333: Molecular and Cellular Biology	4
PHY-112: General Physics II	4	PHY-112: General Physics II – Lecture <b>AND</b> PHY-112L: General Physics II – Lab	4
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
BIO-240: General Genetics	4	^ BIO-457: Genetics	4
CHM-235: General Organic Chemistry I <b>AND</b> CHM-235LL: General Organic Chemistry I Lab	4	CHM-231: Organic Chemistry I <b>AND</b> CHM-231L: Organic Chemistry I Lab	4
CHM-260: Fundamental Biochemistry <b>AND</b> CHM-260LL: Fundamental Biochemistry Lab	4	^ CHM-360: Principles of Biochemistry <b>AND</b> CHM-360L: Principles of Biochemistry Lab	4
CHM-236: General Organic Chemistry IIA <b>AND</b> CHM-236LL: General Organic Chemistry IIA Lab	4	CHM-232: Organic Chemistry II <b>AND</b> CHM-232L: Organic Chemistry II Lab	4

## Bachelor of Science in Biology for Secondary Education – Leads to Initial Teacher Licensure: (Program Major Credits: 85)

BIO-181: General Biology (Majors) I	4	BIO-181: General Biology I <b>AND</b> BIO-181L: General Biology I Lab	4
CHM-151: General Chemistry I <b>AND</b> CHM-151LL: General Chemistry I Lab	4	CHM-113 General Chemistry I <b>AND</b> CHM-113L General Chemistry I Lab	4
EDU-220: Introduction to Serving English Language Learners (ELL)	3	ESL-223N: SEI English Language Teaching: Foundations & Methodologies	3
BIO-201: Human Anatomy & Physiology I	4	BIO-201: Human Anatomy and Physiology I <b>AND</b> BIO-201L: Human Anatomy and Physiology I Lab	4
EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
POS-220: U.S. & Arizona Constitution	3	^ POS-301: Arizona and Federal Government	3
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
CHM-230: Fundamental Organic Chemistry	3	CHM-235: Survey of Organic Chemistry	3

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CHM-230LL: Fundamental Organic Chemistry Lab	1	CHM-235L: Survey of Organic Chemistry Lab	1
PHY-111: General Physics I	4	PHY-111: General Physics I <b>AND</b> PHY-111L: General Physics I Lab	4
BIO-202: Human Anatomy & Physiology II	4	BIO-202: Human Anatomy and Physiology II <b>AND</b> BIO-202L: Human Anatomy and Physiology II Lab	4
BIO-245: Cellular & Molecular Biology	4	^ BIO-333: Molecular and Cellular Biology	4
BIO-240: General Genetics	4	^ BIO-457: Genetics	4
EDU-233: SEI & English as a Second Language (ESL) Teaching Methods	3	^ ESL-433N Advanced Methodologies of Structured English Immersion	3
<b>Bachelor of Science in Biology with an Emphasis in Pre-Medicine: (Program Major Credits: 80)</b>			
BIO-181: General Biology (Majors) I	4	BIO-181 General Biology I <b>AND</b> BIO-181L General Biology I Lab	4
CHM-151: General Chemistry I <b>AND</b> CHM-151LL: General Chemistry I Lab	4	CHM-113 General Chemistry I <b>AND</b> CHM-113L General Chemistry I Lab	4
BIO-201: Human Anatomy & Physiology I	4	BIO-210: Anatomy & Physiology for Science Majors I <b>AND</b> BIO-210L: Anatomy & Physiology for Science Majors I Lab	4
BIO-205: Microbiology	4	BIO-215: General Microbiology <b>AND</b> BIO-215L: General Microbiology Lab	4
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
BIO-202: Human Anatomy & Physiology II	4	BIO-211: Anatomy & Physiology for Science Majors II <b>AND</b> BIO-211L: Anatomy & Physiology for Science Majors II Lab	4
BIO-182: General Biology (Majors) II	4	BIO-182: General Biology II <b>AND</b> BIO-182L: General Biology II Lab	4
CHM-235: General Organic Chemistry <b>AND</b> CHM-235L: General Organic Chemistry Lab	4	CHM-231: Organic Chemistry I <b>AND</b> CHM-231L: Organic Chemistry I Lab	4
HCC-145: Medical terminology for Health Care Professionals	3	^ BIO-335: Medical Terminology	3
PHY-111: General Physics I	4	PHY-111: General Physics I <b>AND</b> PHY-111L: General Physics I Lab	4
CHM-236: General Organic Chemistry IIA <b>AND</b> CHM-236LL: General Organic Chemistry IIA Lab	4	CHM-232: Organic Chemistry II <b>AND</b> CHM-232L: Organic Chemistry II Lab	4
BIO-240: General Genetics	4	^ BIO-457: Genetics	4
CHM-260: Fundamental Biochemistry <b>AND</b> CHM-260L: Fundamental Biochemistry Lab	4	^ CHM-360: Principles of Biochemistry ^ CHM-360L: Principles of Biochemistry Lab	4
PHY-112: General Physics II	4	PHY-112: General Physics II <b>AND</b> PHY-112L: General Physics II Lab	4
HCR-240: Human Pathophysiology	4	^ BIO-483: Pathophysiology	4
BIO-245: Cellular & Molecular Biology	4	^ BIO-333: Molecular and Cellular Biology	4

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## Bachelor of Science in Biology with an Emphasis in Pre-Pharmacy: (Program Major Credits: 76)

BIO-181: General Biology (Majors) I	4	BIO-181 General Biology I <b>AND</b> BIO-181L General Biology I Lab	4
CHM-151 General Chemistry I <b>AND</b> CHM-151LL General Chemistry I Lab	4	CHM-113 General Chemistry I <b>AND</b> CHM-113L General Chemistry I Lab	4
BIO-201 Human Anatomy & Physiology I	4	BIO-210: Anatomy & Physiology for Science Majors I <b>AND</b> BIO-210L: Anatomy & Physiology for Science Majors I Lab	4
BIO-205: Microbiology	4	BIO-215: General Microbiology <b>AND</b> BIO-215L: General Microbiology Lab	4
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
BIO-202 Human Anatomy & Physiology II	4	BIO-211: Anatomy & Physiology for Science Majors II <b>AND</b> BIO-211L: Anatomy & Physiology for Science Majors II Lab	4
CHM-235: General Organic Chemistry <b>AND</b> CHM-235L: General Organic Chemistry Lab	4	CHM-231: Organic Chemistry I <b>AND</b> CHM-231L: Organic Chemistry I Lab	4
HCC-145: Medical terminology for Health Care Professionals	3	^ BIO-335: Medical Terminology	3
MAT-213: Brief Calculus <b>OR</b> MAT-221: Calculus with Analytic Geometry I	4	^ MAT-351: Calculus for Biomedical Science	4
CHM-236: General Organic Chemistry IIA CHM-236LL: General Organic Chemistry IIA Lab	4	CHM-232: Organic Chemistry II <b>AND</b> CHM-232L: Organic Chemistry II Lab	4
BIO-240: General Genetics	4	^ BIO-457: Genetics	4
PHY-111 General Physics I	4	PHY-111: General Physics I <b>AND</b> PHY-111L: General Physics I Lab	4
CHM-260: Fundamental Biochemistry <b>AND</b> CHM-260L: Fundamental Biochemistry Lab	4	^ CHM-360: Principles of Biochemistry ^ CHM-360L: Principles of Biochemistry Lab	4
HCR-240: Human Pathophysiology	4	^ BIO-483: Pathophysiology	4

## Bachelor of Science in Biology with an Emphasis in Pre-Physical Therapy: (Program Major Credits: 76)

BIO-181: General Biology (Majors) I	4	BIO-181: General Biology I <b>AND</b> BIO-181L: General Biology I Lab	4
CHM-151: General Chemistry I <b>AND</b> CHM-151LL: General Chemistry I Lab	4	CHM-113: General Chemistry I <b>AND</b> CHM-113L: General Chemistry I Lab	4
BIO-201: Human Anatomy & Physiology I	4	BIO-210: Anatomy & Physiology for Science Majors I <b>AND</b> BIO-210: Anatomy & Physiology for Science Majors I Lab	4
BIO-182: General Biology (Majors) II	4	BIO-182: General Biology II <b>AND</b> BIO-182: General Biology II Lab	4
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
BIO-202: Human Anatomy & Physiology II	4	BIO-211: Anatomy and Physiology for Science Majors II <b>AND</b> BIO-211L: Anatomy and Physiology for Science Majors II Lab	4
PHY-111: General Physics I	4	PHY-111: General Physics I <b>AND</b> PHY-111L: General Physics I Lab	4

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HCC-145: Medical Terminology for Health Care Providers	3	^ BIO-335: Medical Terminology	3
PHY-112: General Physics II	4	PHY-112: General Physics II <b>AND</b> PHY-112L: General Physics II Lab	4
PTA-103: Kinesiology	3	^ EXS-335: Kinesiology <b>AND</b> ^ EXS-335L: Kinesiology Lab	3
PSY-240: Developmental Psychology <b>OR</b> CFS-205: Human Development	3	^ PSY-357: Lifespan Development	3
HCR-240: Human Pathophysiology	4	^ BIO-483: Pathophysiology	4
PSY-266: Abnormal Psychology	3	^ PSY-470: Abnormal Psychology	3
<b>Bachelor of Science in Biology with an Emphasis in Pre-Physician Assistant: (Program Major Credits: 80)</b>			
BIO-181: General Biology (Majors) I	4	BIO-181: General Biology I <b>AND</b> BIO-181L: General Biology I Lab	4
CHM-151: General Chemistry I <b>AND</b> CHM-151LL: General Chemistry I Lab	4	CHM-113: General Chemistry I <b>AND</b> CHM-113L: General Chemistry I Lab	4
BIO-201: Human Anatomy & Physiology I	4	BIO-210: Anatomy & Physiology for Science Majors I <b>AND</b> BIO-210: Anatomy & Physiology for Science Majors I Lab	4
BIO-205: Microbiology	4	BIO-215: General Microbiology <b>AND</b> BIO-215: General Microbiology Lab	4
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
BIO-202: Human Anatomy & Physiology II	4	BIO-211: Anatomy and Physiology for Science Majors II <b>AND</b> BIO-211L: Anatomy and Physiology for Science Majors II Lab	4
BIO-182: General Biology (Majors) II	4	BIO-182: General Biology II <b>AND</b> BIO-182: General Biology II Lab	4
CHM-235: General Organic Chemistry <b>AND</b> CHM-235LL: General Organic Chemistry Lab	4	CHM-231: Organic Chemistry I <b>AND</b> CHM-231L: Organic Chemistry I Lab	4
PHY-111: General Physics I	4	PHY-111: General Physics I <b>AND</b> PHY-111L: General Physics I Lab	4
CHM-236: General Organic Chemistry IIA <b>AND</b> CHM-236LL: General Organic Chemistry IIA Lab	4	CHM-232: Organic Chemistry II <b>AND</b> CHM-232L: Organic Chemistry II Lab	4
BIO-240: General Genetics	4	^ BIO-457: Genetics	4
CHM-260: Fundamental Biochemistry <b>AND</b> CHM-260L: Fundamental Biochemistry Lab	4	^ CHM-360: Principles of Biochemistry <b>AND</b> CHM-360L: Principles of Biochemistry Lab	4
PHY-112: General Physics II	4	PHY-112: General Physics II <b>AND</b> PHY-112L: General Physics II Lab	4
HCR-240: Human Pathophysiology	4	^ BIO-483: Pathophysiology	4
HCC-145: Medical Terminology for Health Care Providers	3	^ BIO-335: Medical Terminology	3
BIO-245: Cellular & Molecular Biology	4	^ BIO-333: Molecular and Cellular Biology	4

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<b>Bachelor of Science in Biomedical Engineering: (Program Major Credits: 88)</b>			
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
EEE-220: Programming for Computer Engineering	3	CST-211: Programming for Engineering & Lab	3
PHY-115: University Physics I	4	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	4
MAT-276: Modern Differential Equations	4	^ MAT-364: Differential Equations for Science and Engineering	4
PHY-116: University Physics II	4	PHY-122: University Physics II <b>AND</b> PHY-122L: University Physics II Lab	4
<b>Bachelor of Science in Business Administration: (Program Major Credits: 60)</b>			
ACC-211: Financial Accounting	3	ACC-250: Financial Accounting	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
ACC-212: Managerial Accounting	3	ACC-260: Management Accounting	3
GBS-205: Legal, Ethical & Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3
MAT-206: Elements of Statistics	3	^ BUS-352: Business Statistics	3
ECN-212: Microeconomic Principles	3	^ ECN-361: Microeconomics	3
ECN-211: Macroeconomic Principles	3	^ ECN-362: Macroeconomics	3
<b>Bachelor of Science in Business Analytics: (Program Major Credits: 68)</b>			
MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
MAT-206: Elements of Statistics	3	^ BUS-352: Business Statistics	3
CIS-276DB: SQL Server Database	3	^ SYM-400: Introduction to Database Structures	3
<b>Bachelor of Science in Business for Secondary Education – Leads to Initial Teacher Licensure: (Program Major Credits: 77)</b>			
POS-220: U.S. and Arizona Constitution	3	^ POS-301: Arizona and Federal Government	3
EDU-230 Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
EDU-222: Introduction to Exceptional Learners	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
GBS-205: Legal, Ethical and Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3
MAT-206: Elements of Statistics	3	^ BUS-352: Business Statistics	3
ECN-211: Macroeconomic Principles	3	^ ECN-362: Macroeconomics	3



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MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
<b>Bachelor of Science in Business Information Systems: (Program Major Credits: 72)</b>			
CSC-180AA Computer Literacy	3	CST-111 Introduction to Computer Science and Information Technology	3
MKT-271 Principles of Marketing	3	^ MKT-315 Introduction to Marketing	3
MAT-206 Elements of Statistics	3	^ BUS-352 Business Statistics	3
CNT-140AA CISCO Networking Fundamentals	3	ITT-116 Platforms and Network Technologies	3
CSC-205 Object Orientated Programming and Data Structures	3	BIT-210 Object-Oriented Programming for Business	3
CIS-276DB SQL Server Database	3	^ SYM-400 Introduction to Database Structures	3
<b>Bachelor of Science in Business Management: (Program Major Credits: 56)</b>			
MKT-271 Principles of Marketing	3	^ MKT-315 Introduction to Marketing	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
GBS-205 Legal, Ethical and Regulatory Issues in Business	3	^ BUS-340 Ethical and Legal Issues in Business	3
MAT-206 Elements of Statistics	3	^ BUS-352 Business Statistics	3
MGT-276 Personnel/Human Resources Management	3	^ MGT-434 Human Resources	3
<b>Bachelor of Science in Chemistry: (Program Major Credits: 80)</b>			
CHM-151: General Chemistry I <b>AND</b> CHM-151LL: General Chemistry I Lab	4	CHM-113 General Chemistry I <b>AND</b> CHM-113L General Chemistry I Lab	4
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
CHM-235: General Organic Chemistry <b>AND</b> CHM-235LL: General Organic Chemistry Lab	4	CHM-231: Organic Chemistry I <b>AND</b> CHM-231L: Organic Chemistry I Lab	4
MAT-206: Elements of Statistics	3	MAT-274: Probability and Statistics	3
CHM-236AA: General Organic Chemistry IIA with Lab	4	CHM-232: Organic Chemistry II <b>AND</b> CHM-232L: Organic Chemistry II Lab	4
BIO-181: General Biology (Majors) I	4	BIO-181: General Biology I <b>AND</b> BIO-181L: General Biology I Lab	4
PHY-115: University Physics I	4	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	4
CHM-260: Fundamental Biochemistry <b>AND</b> CHM-260L: Fundamental Biochemistry Lab	4	^ CHM-360: Principles of Biochemistry <b>AND</b> CHM-360L: Principles of Biochemistry Lab	4
PHY-116: University Physics II	4	PHY-122: University Physics II <b>AND</b> PHY-122L: University Physics II Lab	4

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### Bachelor of Science in Chemistry for Secondary Education – Leads to Initial Teacher Licensure: (Program Major Credits: 88)

EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
PHY-116: University Physics II	5	PHY-122: University Physics II <b>AND</b> PHY-122L: University Physics II Lab	5
CHM-151: General Chemistry I <b>AND</b> CHM-151LL: General Chemistry I Lab	4	CHM-113 General Chemistry I <b>AND</b> CHM-113L General Chemistry I Lab	4
POS-220: U.S. & Arizona Constitution	3	^ POS-301: Arizona and Federal Government	3
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
EDU-220: Introduction to Serving English Language Learners (ELL)	3	ESL-223N: SEI English Language Teaching: Foundations & Methodologies	3
EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
CHM-235: General Organic Chemistry <b>AND</b> CHM-235L: General Organic Chemistry Lab	4	CHM-231: Organic Chemistry I <b>AND</b> CM-231L: Organic Chemistry Lab	4
EDU-233: SEI & English as a Second Language (ESL) Teaching Methods	3	^ ESL-433N Advanced Methodologies of Structured English Immersion	3
CHM-236AA: General Organic Chemistry IIA with Lab	4	CHM-232: Organic Chemistry II <b>AND</b> CHM-232L: Organic Chemistry II Lab	4
CHM-260: Fundamental Biochemistry	3	^ CHM-360: Principles of Biochemistry	3
CHM-260LL: Fundamental Biochemistry Lab	1	^ CHM-360L: Principles of Biochemistry Lab	1

### Bachelor of Science in Computer Programming: (Program Major Credits: 60)

CSC-110: Introduction to Computer Science (Java)	3	CST-105: Computer Programming I	3
CIS-162AD: C#: Level I	3	CST-117: Enterprise Applications Programming I	3
CIS-276DA: MYSQL Database	3	CST-126: Database Application Programming	3
CIS-263AA: Java Programming: Level II	3	CST-135: Computer Programming II	3
CIS-262AD: C# Level II	3	CST-227: Enterprise Applications Programming II	3
CIS-233DA: Internet/Web Development Level II	3	CST-236: Database Applications Programming II	3
CSC-205: Object Oriented Programming and Data Structures	3	CST-201: Algorithms and Data Structures	3
CSC-240: Introduction to Different Programming Languages	3	^ CST-341: Open Source Computing	3
CIS-270: Essentials of Network and Information Security	3	^ ITT-307: Cybersecurity Foundations	3

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## Bachelor of Science in Computer Science with an Emphasis in Big Data Analytics: (Program Major Credits: 88)

MAT-187: Pre-Calculus	5	MAT-261: Pre-Calculus	5
CSC-180AA: Computer Literacy	3	CST-111: Introduction to Computer Science and Information Technology	3
CSC-120: Digital Design Fundamentals <b>OR</b> EEE-120: Digital Design Fundamentals	4	CST-215: Digital Logic and Design Lecture & Lab	4
CSC-100/100AA/100AB: Introduction to Computer Science (C++)	3	CST-210: Object-Oriented Programming Lecture & Lab	3
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
CSC-205: Object Oriented Programming and Data Structures	3	CST-201: Algorithms and Data Structures	3
CSC-230: Computer Organization and Assembly Language <b>OR</b> EEE-230: Computer Organization and Assembly Language	4	^ CST-307: Introduction to Computer Architecture Lecture & Lab	4
MAT-225: Elementary Linear Algebra	3	^ MAT-345: Applied Linear Algebra I	3
ITS-240 Ethical Hacking and Networking Defense	3	^ ITT-306: Information Security II	3

## Bachelor of Science in Computer Science with an Emphasis in Business Entrepreneurship: (Program Major Credits: 88)

MAT-187: Pre-Calculus	5	MAT-261: Pre-Calculus	5
CSC-180AA: Computer Literacy	3	CST-111: Introduction to Computer Science and Information Technology	3
CSC-120: Digital Design Fundamentals <b>OR</b> EEE-120: Digital Design Fundamentals	4	CST-215: Digital Logic and Design Lecture & Lab	4
CSC-100/100AA/100AB: Introduction to Computer Science (C++)	3	CST-210: Object-Oriented Programming Lecture & Lab	3
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
CSC-205: Object Oriented Programming and Data Structures	3	CST-201: Algorithms and Data Structures	3
CSC-230: Computer Organization and Assembly Language <b>OR</b> EEE-230: Computer Organization and Assembly Language	4	^ CST-307: Introduction to Computer Architecture Lecture & Lab	4
MAT-225: Elementary Linear Algebra	3	^ MAT-345: Applied Linear Algebra I	3
ITS-240 Ethical Hacking and Networking Defense	3	^ ITT-306: Information Security II	3
CIS-250 Management of information Systems	3	^ BIT-415: IT Project Management	3

## Bachelor of Science in Computer Science with an Emphasis in Game and Simulation Development: (Program Major Credits: 88)

MAT-187: Pre-Calculus	5	MAT-261: Pre-Calculus	5
CSC-180AA: Computer Literacy	3	CST-111: Introduction to Computer Science and Information Technology	3

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CSC-120: Digital Design Fundamentals <b>OR</b> EEE-120: Digital Design Fundamentals	4	CST-215: Digital Logic and Design Lecture & Lab	4
CSC-100/100AA/100AB: Introduction to Computer Science (C++)	3	CST-210: Object-Oriented Programming Lecture & Lab	3
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
CSC-205: Object Oriented Programming and Data Structures	3	CST-201: Algorithms and Data Structures	3
CSC-230: Computer Organization and Assembly Language <b>OR</b> EEE-230: Computer Organization and Assembly Language	4	^ CST-307: Introduction to Computer Architecture Lecture & Lab	4
MAT-225: Elementary Linear Algebra	3	^ MAT-345: Applied Linear Algebra I	3
ITS-240 Ethical Hacking and Networking Defense	3	^ ITT-306: Information Security II	3
<b>Bachelor of Science in Counseling with an Emphasis in Addiction, Chemical Dependency, and Substance Abuse: (Program Major Credits: 72)</b>			
BHS-210 Addiction, Substance use Disorders, and Relapse Prevention	3	PCN-100: Foundations of Addictions and Substance Use Disorders	3
BHS-205: Therapeutic Models and Interventions	3	PCN-107: Introduction to Counseling Theories	3
ASD-226: Counseling Multicultural and Diverse Populations	3	PCN-158: Multicultural Counseling in a Diverse Society	3
ASD-220: Family Dynamics and Addiction	3	PCN-275: Family Dynamics & Community Ed-Treatment of Addiction & Substance Use Disorders	3
ASD-110: Pharmacology of Substances of Abuse and Dependency	3	PCN-150: Psychopharmacology in Treatment of Addiction and Substance Use Disorders	3
<b>Bachelor of Science in Cybersecurity: (Program Major Credits: 60)</b>			
CSC-180AA: Computer Literacy	3	CST-111: Introduction to Computer Science and Information Technology	3
CNT-140AA: CISCO Networking Fundamentals	3	ITT-116: Platforms and Network Technologies	3
CNT-150AA: Cisco - Routing and Switching Essentials	3	ITT-270: Routing and Switching	3
CIS-270: Essentials of Network and Information Security	3	^ ITT-307: Cybersecurity Foundations	3
ITS-240: Ethical Hacking and Network Defense	3	^ ITT-340: Cybersecurity and Ethical hacking	3
<b>Bachelor of Science in Early Childhood Education – Leads to Initial Teacher Licensure: (Program Major Credits: 80)</b>			
EED-200: Foundations of Early Childhood Education	3	ECE-120: Early Childhood Foundations and the Teaching Profession	3
EDU-222: Introduction to Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
EED-278: Early Learning: Curriculum and Instruction - Birth/Preschool	3	ECE-210: Instructional Planning for Young Children	3

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POS-220: U.S. and Arizona Constitution	3	GOV-260: Arizona Constitution & Government	3
EED-222: Introduction to the Exceptional Young Child: Birth to Age Eight	3	ECE-220: Typical and Atypical Behaviors in Early Childhood	3
EED-250: Early Literacy Development	3	^ ECE-340: Language and Early Literacy Development	3
CFS-176: Child Development	3	^ EDU-354: Child Development: Prenatal to Adolescence	3
EED-220: Child, Family, Community and Culture	3	^ ECE-360: Family, Community, and Cultural Awareness in Early Childhood	3
EED-215: Early Learning: Health, Safety, Nutrition and Fitness	3	^ ECE-300: Development of Health, Safety and Nutrition in Young Children	3
EED-280: Standards, Observation and Assessment of Typical/Atypical Behaviors of Young Children Birth to Age 8	3	ECE-230: Assessing, Monitoring, and Reporting Progress of Young Children	3
EED-212: Guidance, Management and the Environment	3	^ ECE-400: Child Guidance and Management in Early Childhood Education	3
EDU-291: Children's Literature	3	^ ECE-350: Literature as a Tool for Instruction	3
<b>Bachelor of Science in Early Childhood Education and Early Childhood Special Education – Leads to Initial Teacher Licensure: (Program Major Credits: 77)</b>			
POS-220 U.S. and Arizona Constitution	3	^ POS-301 Arizona and Federal Government	3
EDU-228AC Reading and Decoding: Phonics Based	3	^ ELM-305 Foundational Literacy Skills and Phonics	3
EDU-230 Cultural Diversity in Education	3	^ EDU-330 Social Justice for Educators	3
EDU-233: SEI & English as a Second Language (ESL) Teaching Methods	3	^ ESL-433N: Advanced Methodologies of Structured English Immersion	3
<b>Bachelor of Science in Educational Studies – Does Not Lead to Initial Teacher Licensure: (Program Major Credits: 60)</b>			
EDU-269: Methods of Integrating Technology into Curriculum	3	EDU-225: Instructional Technology	3
ECH-176: Child Development	3	^ EDU-354: Child Development: Prenatal to Adolescence	3
EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
EDU-228AC: Reading and Decoding: Phonics Based	3	^ ELM-305: Foundational Literacy Skills and Phonics	3
EDU-291: Children's Literature	3	^ ECH-430: Early Childhood Literature	3
EDU-236: Classroom Relationships	3	ELM-250: Creating and Managing Engaging Learning Environments	3
EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
GBS-205: Legal, Ethical, and Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3

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## Bachelor of Science in Electrical Engineering: (Program Major Credits: 88)

CSC-180AA: Computer Literacy	3	CST-111: Introduction to Computer Science and Information Technology	3
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
CSC-100/100AA/100AB: Introduction to Computer Science (C++)	3	CST-210: Object-Oriented Programming Lecture & Lab	3
PHY-116: University Physics II	5	PHY-122: University Physics II <b>AND</b> PHY-122L: University Physics II Lab	5
EEE-202: Circuits and Devices	5	EEE-202: Circuits <b>AND</b> EEE-202L: Circuits Lab	5
MAT-225: Elementary Linear Algebra	3	^ MAT-345 Applied Linear Algebra I	3
CSC-120: Digital Design Fundamentals <b>OR</b> EEE-120: Digital Design Fundamentals	4	CST-215: Digital Logic and Design Lecture & Lab	4
MAT-276: Modern Differential Equations	4	^ MAT-364: Differential Equations for Science and Engineering	4
CSC-230: Computer Organization and Assembly Language <b>OR</b> EEE-230: Computer Organization and Assembly Language	4	^ CST-307: Introduction to Computer Architecture Lecture & Lab	4

## Bachelor of Science in Electrical Engineering Technology: (Program Major Credits: 88)

CSC-180AA: Computer Literacy	3	CST-111: Introduction to Computer Science and Information Technology	3
PHY-111: General Physics I	4	PHY-111: General Physics I <b>AND</b> PHY-111L: General Physics I Lab	4
MAT-221: Calculus with Analytic Geometry I	4	MAT-252: Calculus and Analytic Geometry	4
MAT-206: Elements of Statistics	4	MAT-274: Probability and Statistics	4
PHY-112: General Physics II	4	PHY-112: General Physics II <b>AND</b> PHY-112L: General Physics II Lab	4
ELE-111: Circuit Analysis I	4	EET-202: Applied Circuits I <b>AND</b> EET-202L: Applied Circuits I Lab	4
CSC-120: Digital Design Fundamentals <b>OR</b> EEE-120: Digital Design Fundamentals	4	CST-215: Digital Logic and Design Lecture & Lab	4
CSC-100/100AA/100AB: Introduction to Computer Science (C++)	3	CST-210: Object-Oriented Programming Lecture & Lab	3
CNT-140AA: Introduction to Networks	3	ITT-116: Platforms and Network Technologies	3
CNT-150AA: Cisco Routing & Switching Essentials	3	ITT-270: Routing and Switching	3
CSC-230: Computer Organization and Assembly Language <b>OR</b> EEE-230: Computer Organization and Assembly Language	3	^ CST-307: Introduction to Computer Architecture Lecture & lab	3

# Transfer Guide between Maricopa Community Colleges and Grand Canyon University



<b>Bachelor of Science in Elementary Education – Leads to Initial Teacher Licensure: (Program Major Credits: 68)</b>			
MAT-256: Investigating Quantity - Number, Operations, & Numeration Systems	4	MAT-150: Mathematics for Elementary Teachers I	4
MAT-257: Investigating Geometry, Probability, & Statistics	4	MAT-151: Mathematics for Elementary Teachers II	4
EDU-274: Understanding Adolescent Behavior in the Classroom	3	ELM-200: Child and Early Adolescent Development and Psychology	3
EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
EDU-236: Classroom Relationships	3	ELM-250: Creating and Managing Engaging Learning	3
EDU-228AC: Reading and Decoding: Phonics Based	3	^ ELM-305: Foundational Literacy Skills and Phonics	3
EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
HIS-103: United States History to 1865 <b>AND</b> HIS-104 United States History 1865 to Present	6	HIS-144: U.S. History Themes	3
POS-221 Arizona Constitution	1	GOV-260 Arizona Constitution & Government	1
<b>Bachelor of Science in Elementary Education and Special Education – Leads to Initial Teacher Licensure: (Program Major Credits: 80)</b>			
EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
EDU-236: Classroom Relationships	3	ELM-250: Creating and Managing Engaging Learning	3
EDU-228AC: Reading and Decoding: Phonics Based	3	^ ELM-305: Foundational Literacy Skills and Phonics	3
EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
POS-221: Arizona Constitution	1	GOV-260: Arizona Constitution & Government	1
EDU-239: Structured English Immersion Grades K-8	3	^ ESL-440N: Methods of Structured English Immersion for Elementary Educations	3
<b>Bachelor of Science in Elementary Education with an Emphasis in Christian Education – Leads to Initial Teacher Licensure: (Program Major Credits: 80)</b>			
EDU-274: Understanding Adolescent Behavior in the Classroom	3	ELM-200: Child and Early Adolescent Development and Psychology	3
EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
EDU-236: Classroom Relationships	3	ELM-250: Creating and Managing Engaging Learning	3
EDU-228AC: Reading and Decoding: Phonics Based	3	^ ELM-305: Foundational Literacy Skills and Phonics	3
POS-221: Arizona Constitution	1	GOV-260: Arizona Constitution & Government	1
EDU-239: Structured English Immersion Grades K-8	3	^ ESL-440N: Methods of Structured English Immersion for Elementary Education	3

## Transfer Guide between Maricopa Community Colleges and Grand Canyon University



EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
REL211: Introduction to the Hebrew Bible	3	BIB-106: Old Testament Survey	3
REL271: Introduction to New Testament	3	BIB-107: New Testament Survey	3
<b>Bachelor of Science in Elementary Education with an Emphasis in English as a Second Language – Leads to Initial Teacher Licensure: (Program Major Credits: 80)</b>			
EDU-274 Understanding Adolescent Behavior in the Classroom	3	ELM-200: Child and Early Adolescent Development and Psychology	3
EDU-222 Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
EDU-236 Classroom Relationships	3	ELM-250: Creating and Managing Engaging Learning	3
EDU-228AC Reading and Decoding: Phonics Based	3	^ ELM-305: Foundational Literacy Skills and Phonics	3
EDU-230 Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
POS-221 Arizona Constitution	1	GOV-260: Arizona Constitution & Government	1
EDU-239: Structured English Immersion Grades K-8	3	^ ESL-440N: Methods of Structured English Immersion for Elementary Education	3
<b>Bachelor of Science in Elementary Education Emphasis in STEM (Leads to Initial Teacher Licensure): (Program Major Credits: 76)</b>			
EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
EDU-236: Classroom Relationships	3	ELM-250: Creating and Managing Engaging Learning	3
EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
POS-221: Arizona Constitution	1	GOV-260: Arizona Constitution & Government	1
EDU-239: Structured English Immersion Grades K-8	3	^ ESL-440N: Methods of Structured English Immersion for Elementary Education	3
MAT-257: Investigating Geometry, Probability and Statistics	4	MAT-151: Mathematics for Elementary Teachers II	4
<b>Bachelor of Science in Elementary Education with an Emphasis in Teaching Reading (Leads to Initial Teacher Licensure): (Program Major Credits: 80)</b>			
EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
EDU-236: Classroom Relationships	3	ELM-250: Creating and Managing Engaging Learning	3
MAT-257: Investigating Geometry, Probability and Statistics	4	MAT-151: Mathematics for Elementary Teachers II	4
POS-221: Arizona Constitution	1	GOV-260: Arizona Constitution & Government	1



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EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
EDU-239: Structured English Immersion Grades K-8	3	^ ESL-440N: Methods of Structured English Immersion for Elementary Education	3
<b>Bachelor of Science in Engineering: (Program Major Credits: 88)</b>			
EEE-220: Programming for Computer Engineering	3	CST-211: Programming for Engineering & Lab	3
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
PHY-116: University Physics II	5	PHY-122: University Physics II <b>AND</b> PHY-122L: University Physics II Lab	5
MAT-276: Modern Differential Equations	4	^ MAT-364: Differential Equations for Science and Engineering	4
<b>Bachelor of Science in Engineering with an Emphasis in Robotics: (Program Major Credits: 88)</b>			
EEE-220: Programming for Computer Engineering	3	CST-211: Programming for Engineering & Lab	3
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
PHY-116: University Physics II	5	PHY-122: University Physics II <b>AND</b> PHY-122L: University Physics II Lab	5
MAT-276: Modern Differential Equations	4	^ MAT-364: Differential Equations for Science and Engineering	4
<b>Bachelor of Science in Entrepreneurial Studies: (Program Major Credits: 60)</b>			
MKT-271 Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
MAT-206 Elements of Statistics	3	^ BUS-352: Business Statistics	3
ECN-112: Microeconomic Principles	3	^ ECN-361: Microeconomics	3
ECN-111: Macroeconomic Principles	3	^ ECN-362: Macroeconomics	3
GBS-205: Legal, Ethical, And Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3
<b>Bachelor of Science in Environmental Science: (Program Major Credits: 75)</b>			
BIO-181: General Biology (Majors) I	4	BIO-181: General Biology I <b>AND</b> BIO-181: General Biology I Lab	4
MAT-187: Pre-Calculus	5	MAT-261: Pre-Calculus	5
ENV-101: Introduction to Environmental Science	4	BIO-220: Environmental Science	4
BIO-205: Microbiology	4	BIO-205: Microbiology <b>AND</b> BIO-205L: Microbiology Lab	4

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CHM-151: General Chemistry I <b>AND</b> CHM-151LL: General Chemistry I Lab	4	CHM-113: General Chemistry I <b>AND</b> CHM-113L: General Chemistry I Lab	4
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
MAT-206: Elements of Statistics	3	MAT-274: Probability and Statistics	3
CHM-230: Fundamental Organic Chemistry <b>AND</b> CHM-230LL: Fundamental Organic Chemistry Lab	4	CHM-235: Survey of Organic Chemistry <b>AND</b> CHM-235L: Survey of Organic Chemistry Lab	4
<b>Bachelor of Science in Exercise Science with an Emphasis in Health Education: (Program Major Credits: 72)</b>			
WED-110: Principles of Physical Fitness and Wellness	3	PED-200: Lifetime Personal Wellness and Teaching of Fitness	3
EXS-130: Strength Fitness – Physiological Principles & Training Techniques <b>AND</b> EXS-216: Instructional Competency – Muscular Strength & Conditioning	5	EXS-200: Resistance Training: Theory & Practice <b>AND</b> EXS-200L: Resistance Training: Theory & Practice Lab	5
EXS-132: Cardiovascular Fitness: Physiological Principles & Training Techniques <b>AND</b> EXS-218: Instructional Competency – Cardiorespiratory Exercises & Activities	5	EXS-202: Cardiovascular Fitness: Theory & Practice <b>AND</b> EXS-202L: Cardiovascular Fitness: Theory & Practice Lab	5
COM-230: Small Group Communication	3	COM-222: Small Group Communications	3
BIO-160: Introduction to Human Anatomy & Physiology	4	BIO-155: Introduction to Anatomy & Physiology <b>AND</b> BIO-155L: Introduction to Anatomy & Physiology Lab	4
FON-247: Weight Management Theory	3	EXS-247: Health Risk Appraisal, Weight Control & Management	3
EXS-145: Guidelines for Exercise Testing & Prescription	3	EXS-235: Exercise Testing and Prescription	3
FON-241: Principles of Human Nutrition	3	^ BIO-319: Applied Nutrition	3
PTA-103: Kinesiology	3	^ EXS-335: Kinesiology <b>AND</b> ^ EXS-335L: Kinesiology Lab	3
<b>Bachelor of Science in Exercise Science with an Emphasis in Sports Performance: (Program Major Credits: 72)</b>			
WED-110: Principles of Physical Fitness and Wellness	3	PED-200: Lifetime Personal Wellness and Teaching of Fitness	3
EXS-130: Strength Fitness – Physiological Principles & Training Techniques <b>AND</b> EXS-216: Instructional Competency – Muscular Strength & Conditioning	5	EXS-200: Resistance Training: Theory & Practice <b>AND</b> EXS-200L: Resistance Training: Theory & Practice Lab	5
EXS-132: Cardiovascular Fitness: Physiological Principles & Training Techniques <b>AND</b> EXS-218: Instructional Competency – Cardiorespiratory Exercises & Activities	5	EXS-202: Cardiovascular Fitness: Theory & Practice <b>AND</b> EXS-202L: Cardiovascular Fitness: Theory & Practice Lab	5
COM-230: Small Group Communication	3	COM-222: Small Group Communications	3

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BIO-160: Introduction to Human Anatomy & Physiology	4	BIO-155: Introduction to Anatomy & Physiology <b>AND</b> BIO-155L: Introduction to Anatomy & Physiology Lab	4
FON-247: Weight Management Theory	3	EXS-247: Health Risk Appraisal, Weight Control & Management	3
EXS-145: Guidelines for Exercise Testing & Prescription	3	EXS-235: Exercise Testing and Prescription	3
FON-241: Principles of Human Nutrition	3	^ BIO-319: Applied Nutrition	3
PTA-103: Kinesiology	3	^ EXS-335: Kinesiology <b>AND</b> ^ EXS-335L: Kinesiology Lab	3
<b>Bachelor of Science in Finance: (Program Major Credits: 76)</b>			
ACC-211: Financial Accounting	3	ACC-250: Financial Accounting	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
ACC-212: Managerial Accounting	3	ACC-260: Management Accounting	3
MAT-206: Elements of Statistics	3	^ BUS-352: Business Statistics	3
GBS-205: Legal, Ethical, and Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3
ECN-212: Microeconomics Principles	3	^ ECN-361: Microeconomics	3
ECN-211: Macroeconomics Principles	3	^ ECN-362: Macroeconomics	3
MAT-212/213: Brief Calculus	3 - 4	MAT-251: Brief Calculus	3 - 4
MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
<b>Bachelor of Science in Finance and Economics: (Program Major Credits: 60)</b>			
ACC-211: Financial Accounting	3	ACC-250: Financial Accounting	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
ACC-212: Managerial Accounting	3	ACC-260: Management Accounting	3
MAT-206: Elements of Statistics	3	^ BUS-352: Business Statistics	3
GBS-205: Legal, Ethical, and Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3
ECN-212: Microeconomics Principles	3	^ ECN-361: Microeconomics	3
ECN-211: Macroeconomics Principles	3	^ ECN-362: Macroeconomics	3

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### Bachelor of Science in Forensic Science: (Program Major Credits: 76)

BIO-181: General Biology (Majors) I	3	BIO-181: General Biology I <b>AND</b> BIO-181L: General Biology I Lab	3
CHM-151: General Chemistry I <b>AND</b> CHM-151LL: General Chemistry I Lab	4	CHM-113 General Chemistry I <b>AND</b> CHM-113L General Chemistry I Lab	4
BIO-201: Human Anatomy & Physiology I	4	BIO-210: Anatomy & Physiology for Science Majors I <b>AND</b> BIO-210L: Anatomy & Physiology for Science Majors I Lab	4
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4
AJS-244: Advanced Crime Scene Photography	3	SCI-220: Forensic Photography & Reconstruction	3
CHM-235: General Organic Chemistry <b>AND</b> CHM-235L: General Organic Chemistry Lab	4	CHM-231: Organic Chemistry I <b>AND</b> CHM-231L: Organic Chemistry I Lab	4
BIO-245: Cellular & Molecular Biology	4	^ BIO-333: Molecular and Cellular Biology	4
PHY-111: General Physics I	4	PHY-111: General Physics I <b>AND</b> PHY-111L: General Physics I Lab	4
CHM-236: General Organic Chemistry IIA CHM-236LL: General Organic Chemistry IIA Lab	4	CHM-232: Organic Chemistry II <b>AND</b> CHM-232L: Organic Chemistry II Lab	4
CHM-260: Fundamental Biochemistry <b>AND</b> CHM-260L: Fundamental Biochemistry Lab	4	^ CHM-360: Principles of Biochemistry ^ CHM-360L: Principles of Biochemistry Lab	4
PHY-112: General Physics II	4	PHY-112: General Physics II <b>AND</b> PHY-112L: General Physics II Lab	4
BIO-240: General Genetics	4	^ BIO-457: Genetics	4

### Bachelor of Science in Health Care Administration: (Program Major Credits: 56)

HES-210: Cultural Aspects of Health and Illness	3	HLT-205: Health Care Systems and Transcultural Health Care	3
HSM-226: Ethics and Legalities of Health Services Management	3	^ HLT-305: Legal and Ethical Principles in Health Care	3
HIM-219: Health Information Management Systems	3	^ HCA-360: Health Information Technology and Management	3
MAT-206: Elements of Statistics	3	MAT-274: Probability and Statistics	3

### Bachelor of Science in Health Information Management: (Program Major Credits: 78)

CSC-180AA: Computer Literacy	3	CST-111: Introduction to Computer Science and Information Technology	3
MAT-206: Elements of Statistics	3	MAT-274: Probability and Statistics	3
HCC-145: Medical Terminology for Health Care Professionals	3	^ BIO-335: Medical Terminology	3
CIS-276DB: SQL Server Database	3	^ SYM-400: Introduction to Database Structures	3
PSY-290AC: Research Methods	3	^ HLT-364: Research and Communication Techniques in Health Care and Science	3

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MGT-276: Personnel/Human Resources Management	3	^ MGT-434: Human Resources	3
<b>Bachelor of Science in Health Science in Professional Development and Advanced Patient Care: (Program Major Credits: 36)</b>			
MAT-206: Elements of Statistics	3	^ HLT-362V: Applied Statistics for Health Care Professionals	3
HCR-230: Culture and Health	3	^ HLT-324V: Transcultural Health Care	3
HCR-220: Introduction to Nursing and Health Care Systems	3	^ HLT-314V: Health Care Systems	3
HCR-210: Clinical Health Care Ethics	3	^ HLT-312V: Ethics for Health Care Professionals	3
<b>Bachelor of Science in Homeland Security and Emergency Management: (Program Major Credits: 36)</b>			
AJS-149: Hazard Mitigation	3	^ EMM-311: Hazard Mitigation Planning	3
<b>Bachelor of Science in Hospitality Management: (Program Major Credits: 68)</b>			
HRM-110: Hospitality/Tourism Management	3	HOS-200: Introduction to Hospitality	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
GBS-205: Legal, Ethical, & Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3
MAT-206: Elements of Statistics	3	^ BUS-352: Business Statistics	3
FON-206: Food Service Management	3	^ HOS-460: Food and Beverage Service Management and Operations	3
HRM-260: Hospitality Human Resource Management	3	^ MGT-434: Human Resources	3
HRM-270: Hospitality Marketing	3	^ HOS-470: Hospitality Services Marketing	3
<b>Bachelor of Science in Information Technology: (Program Major Credits: 52)</b>			
CSC-180AA: Computer Literacy	3	CST-111: Introduction to Computer Science and Information Technology	3
CNT-140AA: Introduction to Networks	3	ITT-116: Platforms and Network Technologies	3
CIS-238: Advanced Unix System Administration	3	ITT-121: System Administration and Maintenance	3
CNT-150AA: Cisco Routing & Switching Essentials	3	ITT-270: Routing and Switching	3
CIS-270: Essentials of Network & Information Security	3	^ ITT-307: Cybersecurity Foundations	3
CIS-276DB: SQL Server Database	3	^ SYM-400: Introduction to Database Structures	3
<b>Bachelor of Science in Information Technology with an Emphasis in Cybersecurity: (Program Major Credits: 64)</b>			
CSC-180AA: Computer Literacy	3	CST-111: Introduction to Computer Science and Information Technology	3
CNT-140AA: Introduction to Networks	3	ITT-116: Platforms and Network Technologies	3

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CIS-238: Advanced Unix System Administration	3	ITT-121: System Administration and Maintenance	3
CNT-150AA: Cisco Routing & Switching Essentials	3	ITT-270: Routing and Switching	3
CIS-270: Essentials of Network & Information Security	3	^ ITT-307: Cybersecurity Foundations	3
ITS-240: Ethical Hacking & Network Defense	3	^ ITT-340: Cybersecurity and Ethical Hacking	3
CIS-276DB: SQL Server Database	3	^ SYM-400: Introduction to Database Structures	3
<b>Bachelor of Science in Justice Studies: (Program Major Credits: 48)</b>			
AJS-101: Introduction to Criminal Justice	3	JUS-104: Introduction to Justice Studies	3
AJS-225: Criminology	3	JUS-212: Criminal Behavior and Victimology	3
AJS-230: The Police Function	3	^ JUS-320: The Police Function	3
AJS-240: The Correction Function	3	^ JUS-330: The Correctional Function	3
AJS-109: Substantive Criminal Law	3	^ JUS-430: Criminal Law	3
<b>Bachelor of Science in Marketing and Advertisement: (Program Major Credits: 60)</b>			
MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
GBS-205: Legal, Ethical, and Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3
MAT-206: Elements of Statistics	3	^ BUS-352: Business Statistics	3
<b>Bachelor of Science in Mathematics for Secondary Education – Leads to Initial Teacher Licensure: (Program Major Credits: 80)</b>			
PSY-248: Psychology of Adolescent Development	3	SEC-201: Early Adolescent and Adolescent Psychology	3
MAT-221: Calculus with Analytic Geometry I	4	MAT-252: Calculus and Analytic Geometry	4
MAT-206: Elements of Statistics	4	MAT-274: Probability and Statistics	4
EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3
EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
POS-221: Arizona Constitution	1	GOV-260: Arizona Constitution & Government	1
MAT-230: Analytic Geometry & Calculus II <b>OR</b> MAT-231: Calculus with Analytic Geometry II	4 - 5	MAT-253: Calculus and Analytic Geometry II	4 - 5
<b>Bachelor of Science in Mechanical Engineering: (Program Major Credits: 88)</b>			
CHM-152: General Chemistry II <b>AND</b> CHM-152LL: General Chemistry II Lab	4	+ CHM-115: General Chemistry II <b>AND</b> CHM-115L: General Chemistry II Lab	4

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EEE-220: Programming for Computer Engineering	3	CST-211: Programming for Engineering & Lab	3
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
PHY-116: University Physics II	5	PHY-122: University Physics II <b>AND</b> PHY-122L: University Physics II Lab	5
MAT-276: Modern Differential Equations	4	^ MAT-364: Differential Equations for Science and Engineering	4
<b>Bachelor of Science in Mechanical Engineering Technology: (Program Major Credits: 88)</b>			
EEE-220: Programming for Computer Engineering	3	CST-211: Programming for Engineering & Lab	3
PHY-115: University Physics I	5	PHY-121: University Physics I <b>AND</b> PHY-121L: University Physics I Lab	5
PHY-116: University Physics II	5	PHY-122: University Physics II <b>AND</b> PHY-122L: University Physics II Lab	5
MAT-221: Calculus with Analytic Geometry I	4	MAT-252: Calculus and Analytic Geometry	4
MAT-206: Elements of Statistics	4	MAT-274: Probability and Statistics	4
ECE-211: Engineering Mechanics – Statics	3	MET-212: Static Analysis of Mechanical Systems & Lab	3
ECE-212: Engineering Mechanics – Dynamics	3	MET-213: Dynamic Analysis of Mechanical Systems & Lab	3
ECE-215: Mechanics of Materials	3	MET-203: Strength of Materials & Lab	3
<b>Bachelor of Science in Nutritional Sciences: (Program Major Credits: 64)</b>			
MAT-206: Elements of Statistics	3	MAT-274: Probability and Statistics	3
FON-241: Principles of Human Nutrition	3	^ BIO-319: Applied Nutrition	3
PSY-240: Developmental Psychology <b>OR</b> CFS-205: Human Development	3	^ PSY-357: Lifespan Development	3
PSY-218: Health Psychology	3	^ PSY-352: Health Psychology	3
<b>Bachelor of Science in Physical Education – Leads to Initial Teacher Licensure: (Program Major Credits: 77)</b>			
BIO-160: Introduction to Human Anatomy & Physiology	4	BIO-155: Introduction to Anatomy & Physiology <b>AND</b> BIO-155L: Introduction to Anatomy & Physiology Lab	4
POS-220: U.S. & Arizona Constitution	3	^ POS-301: Arizona and Federal Government	3
EDU-269: Methods of Integrating Technology into Curriculum	3	EDU-225: Instructional Technology	3
EDU-222: Introduction to the Exceptional Learner	3	SPD-200: Survey of Special Education: Mild to Moderate Disabilities	3
EDU-230: Cultural Diversity in Education	3	^ EDU-330: Social Justice for Educators	3

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EDU-233: SEI & English as a Second Language (ESL) Teaching Methods	3	^ ESL-433N Advanced Methodologies of Structured English Immersion	3
PTA-103: Kinesiology	3	^ EXS-335: Kinesiology <b>AND</b> ^ EXS-335L: Kinesiology Lab	3
<b>Bachelor of Science in Psychology: (Program Major Credits: 48)</b>			
PSY-101: Introduction to Psychology	3	PSY-102: General Psychology	3
PSY-290AB: Research Methods	3	PSY-260: Introduction to Psychological Research and Ethics	3
PSY-260: Psychology of Personality	3	PSY-255: Personality Psychology	3
PSY-240: Developmental Psychology	3	^ PSY-355: Child and Adolescent Psychology	3
PSY-250: Social Psychology	3	^ PSY-362: Social Psychology and Cultural Applications	3
PSY-230: Introduction to Statistics	3	^ PSY-380: Introduction to Probability and Statistics	3
PSY-266: Abnormal Psychology	3	^ PSY-470: Abnormal Psychology	3
<b>Bachelor of Science in Psychology with Emphasis in Forensic Psychology: (Program Major Credits: 64)</b>			
PSY-101: Introduction to Psychology	3	PSY-102: General Psychology	3
AJS-225: Criminology	3	JUS-212: Criminal Behavior and Victimology	3
PSY-290AB: Research Methods	4	PSY-260: Introduction to Psychological Research and Ethics	4
PSY-260: Psychology of Personality	3	PSY-255: Personality Psychology	3
PSY-267: Introduction to Forensic Psychology	3	^ PSY-310: Introduction to Forensic Psychology	3
PSY-218: Health Psychology	3	^ PSY-352: Health Psychology	3
PSY-240: Developmental Psychology	3	^ PSY-355: Child and Adolescent Psychology	3
PSY-250: Social Psychology	3	^ PSY-362: Social Psychology and Cultural Applications	3
PSY-230: Introduction to Statistics <b>OR</b> MAT-206: Elements of Statistics	3	^ PSY-380: Introduction to Probability and Statistics	3
AJS-109: Substantive Criminal Law	3	^ JUS-430: Criminal Law	3
BHS-175: Introduction to Trauma-Informed & Trauma-Focused Caregiving	3	^ BHS-440: Understanding Trauma	3
PSY-266: Abnormal Psychology	3	^ PSY-470: Abnormal Psychology	3
<b>Bachelor of Science in Psychology with an Emphasis in Sports Psychology: (Program Major Credits: 64)</b>			
PSY-101: Introduction to Psychology	3	PSY-102: General Psychology	3
PSY-290AB: Research Methods	3	PSY-260: Introduction to Psychological Research and Ethics	3



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PSY-260: Psychology of Personality	3	PSY-255: Personality Psychology	3
PSY-240: Developmental Psychology	3	^ PSY-355: Child and Adolescent Psychology	3
PSY-250: Social Psychology	3	^ PSY-362: Social Psychology and Cultural Applications	3
PSY-230: Introduction to Statistics	3	^ PSY-380: Introduction to Probability and Statistics	3
PSY-266: Abnormal Psychology	3	^ PSY-470: Abnormal Psychology	3
<b>Bachelor of Science in Sociology: (Program Major Credits: 48)</b>			
SOC-101: Introduction to Sociology	3	SOC-102: Principles of Sociology	3
SOC-251: Social Problems	3	SOC-220: Social Problems	3
PSY-250: Social Psychology	3	^ PSY-362: Social Psychology and Cultural Applications	3
SOC-157: Sociology of Marriage and Family	3	^ SOC-320: Marriage and Family	3
SWU-102: Introduction to Social Work	3	^ SOC-372: Introduction to Social Work	3
PSY-230: Introduction to Statistics	3	^ PSY-380: Introduction to Probability and Statistics	3
<b>Bachelor of Science in Sociology with an Emphasis in Social Work: (Program Major Credits: 48)</b>			
SOC-101: Introduction to Sociology	3	SOC-102: Principles of Sociology	3
SOC-251: Social Problems	3	SOC-220: Social Problems	3
PSY-250: Social Psychology	3	^ PSY-362: Social Psychology and Cultural Applications	3
SOC-157: Sociology of Marriage and Family	3	^ SOC-320: Marriage and Family	3
SWU-102: Introduction to Social Work	3	^ SOC-372: Introduction to Social Work	3
<b>Bachelor of Science in Sports Management: (Program Major Credits: 56)</b>			
MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3
EXS-150: Introduction to Sports Management	3	BUS-232: Introduction to Sports Management	3
MAT-206: Elements of Statistics	3	^ BUS-352: Business Statistics	3
GBS-205: Legal, Ethical, and Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3
<b>Bachelor of Science in Supply Chain and Logistics Management: (Program Major Credits: 72)</b>			
CIS-105: Survey of Computer Information Systems	3	BIT-200: Introduction to Computer Technology	3

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ACC-211: Financial Accounting	3	ACC-250: Financial Accounting	3
ACC-212: Managerial Accounting	3	ACC-260: Management Accounting	3
MAT-206: Elements of Statistics	3	^ BUS-352: Business Statistics	3
MKT-271: Principles of Marketing	3	^ MKT-315: Introduction to Marketing	3
ECN-212: Microeconomic Principles	3	^ ECN-361: Microeconomics	3
ECN-211: Macroeconomic Principles	3	^ ECN-362: Macroeconomics	3
GBS-205: Legal, Ethical and Regulatory Issues in Business	3	^ BUS-340: Ethical and Legal Issues in Business	3

For additional graduation requirements, please see the <https://www.gcu.edu/sites/default/files/media/Documents/Academic-Catalog/University-Policy-Handbook.pdf>.

To obtain a baccalaureate degree at Grand Canyon University (GCU), a student must earn a minimum of 36 semester credits in upper division (300 or above) courses.

A minimum of 120 credits are required for completion of this program of study. If taking one course at a time, this program will take on average 48 months at GCU. Students with transfer credit that applies to this program will shorten the time to completion from that stated on this transfer guide. Please contact your Student Services Counselor for more information.

<https://www.gcu.edu/sites/default/files/media/Documents/Academic-Catalog/University-Policy-Handbook.pdf>

### Symbol Key

^	Symbol indicates the MCCCDC course meets the content requirement but does not fulfill GCU's upper division requirements.
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Effective 2019