

Transfer Guides

Pensacola State College | University of West Florida

Hal Marcus College of Science and Engineering

2023-2024



Refer to the [course catalog](#) for the most current degree planning information.

ARTICULATED ASSOCIATE IN ARTS/BACHELOR OF SCIENCE

Biology, BS

**PSC Course****Equivalent UWF Course**

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
Natural Sciences General Education					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology (+Lab)	4	BSC2010+L	Biology I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
BSC1011+L	Principles of Biological Diversity (+Lab)	4	BSC2011+L	Biology II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II +Lab	4
or			or		
CHM2211+L	Organic Chemistry II (+Lab)	4	CHM2211+L	Organic Chemistry II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective	1		Lower Division Elective	1
Total College Credit Hours		60	Total College Credit Hours		60

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Biology Teaching, BA



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
or			or		
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
	Mathematics General Education Course	3		Mathematics General Education Course (Group A or B)	3
Natural Sciences General Education					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology (+Lab)	4	BSC2010+L	Biology I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
BSC1011+L	Principles of Biological Diversity (+Lab)	4	BSC2011+L	Biology II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective	1-2		Lower Division Elective	1-2
Total College Credit Hours		60	Total College Credit Hours		60

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: Student must have a minimum overall cumulative GPA of 2.50 and pass the General Knowledge portion of the FTCE. Acceptance to the University does not constitute admission to the upper-division program. Please refer to the [course catalog](#) for additional admissions and program requirements.

Biomedical Sciences, BS


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
Natural Sciences General Education					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology (+Lab)	4	BSC2010+L	Biology I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
BSC1011+L	Principles of Biological Diversity (+Lab)	4	BSC2011+L	Biology II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
CHM2211+L	Organic Chemistry II (+Lab)	4	CHM2211+L	Organic Chemistry II (+Lab)	4
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
Total College Credit Hours		60+	Total College Credit Hours		60+

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Total college credit hours may vary depending on additional math prerequisites and/or whether or not the foreign language requirement has been met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

ARTICULATED ASSOCIATE IN ARTS/BACHELOR OF ARTS

Chemistry, BA



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
CHM2211+L	Organic Chemistry II (+Lab)	4	CHM2211+L	Organic Chemistry II (+Lab)	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
or			or		
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective	0-1		Elective	1
Total College Credit Hours		60+	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Total college credit hours may vary depending on additional math prerequisites and/or whether or not the foreign language requirement has been met.

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Chemistry/Biochemistry, BA


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology (+Lab)	4	BSC2010+L	Biology I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
CHM2211+L	Organic Chemistry II (+Lab)	4	CHM2211+L	Organic Chemistry II (+Lab)	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
or			or		
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
Total College Credit Hours		60+	Total College Credit Hours		60

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

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Chemistry Teaching, BA


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
CHM2211+L	Organic Chemistry II (+Lab)	4	CHM2211+L	Organic Chemistry II (+Lab)	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
or			or		
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective	0-1		Lower Division Elective	1
Total College Credit Hours		60+	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Total college credit hours may vary depending on additional math prerequisites and/or whether or not the foreign language requirement has been met.

Note: Student must have a minimum overall cumulative GPA of 2.50 and pass the General Knowledge portion of the FTCE. Acceptance to the University does not constitute admission to the upper-division program. Please refer to the [course catalog](#) for additional admissions and program requirements.

Chemistry, BS


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
CHM2211+L	Organic Chemistry II (+Lab)	4	CHM2211+L	Organic Chemistry II (+Lab)	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus Lab (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
				Lower Division Elective	1
Total College Credit Hours		60+	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Total college credit hours may vary depending on additional math prerequisites and/or whether or not the foreign language requirement has been met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Chemistry/Biochemistry, BS


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology (+Lab)	4	BSC2010+L	Biology I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
CHM2211+L	Organic Chemistry II (+Lab)	4	CHM2211+L	Organic Chemistry II (+Lab)	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
Total College Credit Hours		60+	Total College Credit Hours		60

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Total college credit hours may vary depending on additional math prerequisites and/or whether or not the foreign language requirement has been met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Computer Engineering, BSCE


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
MAC2313	Analytic Geometry and Calculus III	4	MAC2313	Analytic Geometry and Calculus III	4
MAP2302	Differential Equations	3	MAP2302	Differential Equations	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective(s)	4		Lower Division Electives	6
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Computer Science, BS



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
	Natural Science General Education Core Course	3		Natural Science General Education Course (Group A)	3
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
ECO2013	Macroeconomics	3	ECO2013	Principles of Economics Macro	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
PHI2600	Ethics	3	PHI2603	Ethics in Contemporary Society	3
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
COP2224	C++ Programming	3	COP2224	Programming Using C++	3
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	6		Lower Division Electives	8
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core. Refer to the course catalog for approved Natural Science courses.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Construction Management, BS


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
or			or		
MAC2233	Calculus with Business Applications I	3	MAC2233	Calculus with Business Applications	3
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
Natural Sciences General Education*					
PHY1053+L	Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
ECO2013	Macroeconomics	3	ECO2013	Principles of Economics Macro	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
	General Education Elective	3		General Education Elective	3
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
ECO2023	Microeconomics	3	ECO2023	Principles of Economics Micro	3
CGS1570	Computer Concepts and Applications	3	CGS2570	Personal Computer Applications	3
ACG2021	Financial Accounting Principles	3	ACG2021	Principles of Financial Accounting	3
PHY1054+L	Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	6-7		Electives	6-7
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Cybersecurity, BS


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
ECO2013	Macroeconomics	3	ECO2013	Principles of Economics Macro	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
PHI2600	Ethics	3	PHI2603	Ethics in Contemporary Society	3
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
COP2224	C++ Programming	3	COP2334	Programming Using C++	3
ECO2023	Microeconomics	3	ECO2023	Principles of Economics Micro	3
ACG2021	Financial Accounting Principles	3	ACG2021	Principles of Financial Accounting	3
SPC1608	Public Speaking	3	SPC2608	Public Speaking	3
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective(s)	2		Lower Division Elective(s)	2
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Earth and Environmental Science Teaching, BA



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
MAC1147	Precalculus Algebra/Trigonometry	4	MAC1147	Precalculus with Trigonometry	4
Natural Sciences General Education					
BSC1005+L	Introduction to Biology (+Lab)	4	BSC1005+L	General Biology for Non-Majors (+Lab)	4
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
BOT2010+L	General Botany (+Lab)	4	BOT2010+L	General Botany (+Lab)	4
GLY1010+L	Physical Geology (+Lab)	4	GLY2010+L	Physical Geology (+Lab)	4
or			or		
ESC1000+L	Earth Science (+Lab)	4	ESC2000+L	Intro to Earth Science (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	9		Lower Division Electives	9
Total College Credit Hours		60	Total College Credit Hours		60

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: Student must have a minimum overall cumulative GPA of 2.50 and pass the General Knowledge portion of the FTCE. Acceptance to the University does not constitute admission to the upper-division program. Please refer to the [course catalog](#) for additional admissions and program requirements.

Electrical Engineering, BSEE


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
MAC2313	Analytic Geometry and Calculus III	4	MAC2313	Analytic Geometry and Calculus III	4
MAP2302	Differential Equations	3	MAP2302	Differential Equations	3
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective(s)	4		Lower Division Electives	6
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Engineering Technology, BS



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
	Mathematics General Education Course	3		Mathematics General Education Course (Group A)	3
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
Natural Sciences General Education*					
CHM1045	General Chemistry I	3	CHM2045	General Chemistry I	3
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
	General Education Elective	3		General Education Elective	3
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	20		Lower Division Electives	20
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Environmental Science, BS

ENVIRONMENTAL MANAGEMENT SPECIALIZATION



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC1140	Precalculus Algebra	3	MAC1140	Precalculus Algebra	3
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
Natural Sciences General Education					
BSC1005+L	Introduction to Biology (+Lab)	4	BSC1005+L	General Biology for Non-Majors (+Lab)	4
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
Social Sciences General Education					
ANT2000	Introduction to Anthropology	3	ANT2000	Introduction to Anthropology	3
or			or		
PSY2012	General Psychology	3	PSY2012	General Psychology	3
GEA2000	World Regional Geography	3	GEA2000	Nations and Regions of the World	3
or			or		
ECO2013	Macroeconomics	3	ECO2013	Principles of Economics Macro	3
or			or		
INR2002	Intro to International Relations	3	INR2002	International Politics	3
or			or		
POS2041	American National Government*	3	POS2041	American Politics	3
General Education Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
BOT2010+L	General Botany (+Lab)	4	BOT2010+L	General Botany (+Lab)	4
GLY1010+L	Physical Geology (+Lab)	4	GLY2010+L	Physical Geology (+Lab)	4
or			or		
ESC1000+L	Earth Science (+Lab)	4	ESC2000+L	Intro to Earth Science (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	10		Lower Division Electives	10
Total College Credit Hours		60	Total College Credit Hours		60

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Environmental Science, BS

NATURAL SCIENCE SPECIALIZATION



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
ANT2000	Introduction to Anthropology	3	ANT2000	Introduction to Anthropology	3
or			or		
PSY2012	General Psychology	3	PSY2012	General Psychology	3
GEA2000	World Regional Geography	3	GEA2000	Nations and Regions of the World	3
or			or		
ECO2013	Macroeconomics	3	ECO2013	Principles of Economics Macro	3
or			or		
INR2002	Intro to International Relations	3	INR2002	International Politics	3
or			or		
POS2041	American National Government**	3	POS2041	American Politics	3
General Education Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
BOT2010+L	General Botany (+Lab)	4	BOT2010+L	General Botany (+Lab)	4
GLY1010+L	Physical Geology (+Lab)	4	GLY2010+L	Physical Geology (+Lab)	4
or			or		
ESC1000+L	Earth Science (+Lab)	4	ESC2000+L	Intro to Earth Science (+Lab)	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
or			or		
PHY1053+L	General Physics I (+Lab)	4	PHY1053+L	Algebra-Based Physics I (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	5-6		Lower Division Electives	6
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Information Technology, BS



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2233	Calculus with Business Applications I	3	MAC2233	Calculus with Business Applications	3
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
Natural Sciences General Education*					
	Natural Science General Education Core Course	3		Natural Science General Education Course (Group A)	3
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
ECO2013	Macroeconomics	3	ECO2013	Principles of Economics Macro	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
PSY2012	General Psychology	3	PSY2012	General Psychology	3
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CGS1570	Computer Concepts and Applications	3	CGS2570	Personal Computer Applications	3
COP2224	C++ Programming	3	COP2334	Programming Using C++	3
or			or		
COP2800	Java Programming	3	COP2253	Programming Using Java	3
PHI2600	Ethics	3	PHI2603	Ethics in Contemporary Society	3
PHI2100	Logic and Critical Thinking	3	PHI2103	Critical Thinking	3
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	9		Electives	9
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Interdisciplinary Sciences, BS

BIOLOGY AND COMPUTER SCIENCE TRACK



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
or			or		
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
	Mathematics General Education Course	3		Mathematics General Education Course (Group A or B)	3
Natural Sciences General Education					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology I (+Lab)	4	BSC2010+L	Biology I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
BSC1011+L	Principles of Biological Diversity (+Lab)	4	BSC2011+L	Biology II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
COPxxxx	Intro to Programming in ADA, C, C++, Pascal, or equivalent	3	COPxxxx	Intro to Programming in ADA, C, C++, Pascal, or equivalent	3
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2029+L	Physics II with Calculus (+Lab)	5	PHY2029+L	Calculus-Based Physics II (+Lab)	4
or			or		
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
Total College Credit Hours		60+	Total College Credit Hours		60+

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Total college credit hours may vary depending on additional math prerequisites and/or whether or not the foreign language requirement has been met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Interdisciplinary Sciences, BS

BIOLOGY AND EARTH & ENVIRONMENTAL SCIENCES TRACK


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
or			or		
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
	Mathematics General Education Course	3		Mathematics General Education Course (Group A or B)	3
Natural Sciences General Education					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology I (+Lab)	4	BSC2010+L	Biology I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
GLY1010+L	Physical Geology (+Lab)	4	GLY2010+L	Physical Geology (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
BSC1011+L	Principles of Biological Diversity (+Lab)	4	BSC2011+L	Biology II (+Lab)	4
or			or		
BOT2010+L	General Botany (+Lab)	4	BOT2010+L	General Botany (+Lab)	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2029+L	Physics II with Calculus (+Lab)	5	PHY2029+L	Calculus-Based Physics II (+Lab)	4
or			or		
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective	0-2		Lower Division Elective	1-2
Total College Credit Hours		60+	Total College Credit Hours		60

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Total college credit hours may vary depending on additional math prerequisites and/or whether or not the foreign language requirement has been met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Interdisciplinary Sciences, BS

COMPUTER SCIENCE AND EARTH & ENVIRONMENTAL SCIENCE TRACK



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
Natural Sciences General Education					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology I (+Lab)	4	BSC2010+L	Biology I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
BSC1011+L	Principles of Biological Diversity (+Lab)	4	BSC2011+L	Biology II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
GLY1010+L	Physical Geology (+Lab)	4	GLY2010+L	Physical Geology (+Lab)	4
COPxxxx	Intro to Programming in ADA, C, C++, Pascal, or equivalent	3	COPxxxx	Intro to Programming in ADA, C, C++, Pascal, or equivalent	3
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2029+L	Physics II with Calculus (+Lab)	5	PHY2029+L	Calculus-Based Physics II (+Lab)	4
or			or		
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	0-3		Foreign Language I or Lower Division Elective	3
Total College Credit Hours		60+	Total College Credit Hours		60+

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Total college credit hours may vary depending on additional math prerequisites and/or whether or not the foreign language requirement has been met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Marine Biology, BS


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
Natural Sciences General Education					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology I (+Lab)	4	BSC2010+L	Biology I (+Lab)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course*	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
BSC1011+L	Principles of Biological Diversity (+Lab)	4	BSC2011+L	Biology II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
CHM1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
CHM2210+L	Organic Chemistry I (+Lab)	4	CHM2210+L	Organic Chemistry I (+Lab)	4
CHM2211+L	Organic Chemistry II (+Lab)	4	CHM2211+L	Organic Chemistry II (+Lab)	4
or			or		
PHY1053+L	General Physics I (+Lab)	4	PHY2053+L	Algebra-Based Physics I (+Lab)	4
PHY1054+L	General Physics II (+Lab)	4	PHY2054+L	Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	5		Lower Division Electives	5
Total College Credit Hours		60	Total College Credit Hours		60

* AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Mathematics, BS



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
	Natural Science General Education Core Course	3		Natural Science General Education Course (Group A)	3
	Natural Science General Education Course (+Lab) (BSC, CHM, PHY, or GLY prefix)	4		Natural Science General Education Course (+Lab) (Group A or B)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
	General Education Elective	3		General Education Elective	3
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
MAC2313	Analytic Geometry and Calculus III	4	MAC2313	Analytic Geometry and Calculus III	4
MAP2302	Differential Equations	3	MAP2302	Differential Equations	3
COPXXXX	Computer Language Elective	3	COPXXXX	Computer Language Elective	3
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	8		Lower Division Electives	8
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Mathematics Teaching, BA



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
	Natural Science General Education Core Course	3		Natural Science General Education Course (Group A)	3
	Natural Science General Education Course (+Lab) (BSC, CHM, PHY, or GLY prefix)	4		Natural Science General Education Course (+Lab) (Group A or B)	4
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
	General Education Elective	3		General Education Elective	3
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
MAC2313	Analytic Geometry and Calculus III	4	MAC2313	Analytic Geometry and Calculus III	4
MAP2302	Differential Equations	3	MAP2302	Differential Equations	3
COPXXXX	Computer Language Elective	3	COPXXXX	Computer Language Elective	3
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Electives	8		Lower Division Electives	8
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: Student must have a minimum overall cumulative GPA of 2.50 and pass the General Knowledge portion of the FTCE. Acceptance to the University does not constitute admission to the upper-division program. Please refer to the [course catalog](#) for additional admissions and program requirements.

Mechanical Engineering, BSME



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
MAP2302	Differential Equations	3	MAP2302	Differential Equations	3
MAC2313	Analytic Geometry and Calculus III	4	MAC2313	Analytic Geometry and Calculus III	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective(s)	4		Lower Division Electives	6
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Engineering Physics, BS



PSC Course



Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CMH1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
MAC2313	Analytic Geometry and Calculus III	4	MAC2313	Analytic Geometry and Calculus III	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
COPXXXX	Computer Language Elective	3	COPXXXX	Computer Language Elective	3
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
				Lower Division Elective	2
Total College Credit Hours		60	Total College Credit Hours		60

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** AMH2020 or POS2041 is required if the Civic Literacy Competency is not met.

Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Physics, BS



Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CMH1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
MAC2313	Analytic Geometry and Calculus III	4	MAC2313	Analytic Geometry and Calculus III	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective	3		Lower Division Electives	5
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

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Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

ARTICULATED ASSOCIATE IN ARTS/BACHELOR OF ARTS

Physics, BA



Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CMH1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
MAC2313	Analytic Geometry and Calculus III	4	MAC2313	Analytic Geometry and Calculus III	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective	3		Lower Division Electives	5
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

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Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).

Physics Teaching, BA


PSC Course

Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
MAC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
Natural Sciences General Education*					
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
	Social Science General Education Core Course	3		Social Science General Education Course (Group A)	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
CMH1046+L	General Chemistry II (+Lab)	4	CHM2046+L	General Chemistry II (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
MAC2313	Analytic Geometry and Calculus III	4	MAC2313	Analytic Geometry and Calculus IIIs	4
PHY2048+L	Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
PHY2049+L	Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective	3		Lower Division Electives	5
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

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Note: Student must have a minimum overall cumulative GPA of 2.50 and pass the General Knowledge portion of the FTCE. Acceptance to the University does not constitute admission to the upper-division program. Please refer to the [course catalog](#) for additional admissions and program requirements.

Software Design & Development, BS



Course #	Course Title	CC	Course #	Course Title	CC
Communications General Education					
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities General Education					
	Humanities General Education Core Course	3		Humanities General Education Course (Group A)	3
	Humanities General Education Course (LIT, AML, or ENL prefix)	3		Humanities General Education Course (Group A or B)	3
Mathematics General Education					
MAC2233	Calculus with Business Applications I	3	MAC2233	Calculus with Business Applications	3
STA2023	Elementary Statistics	3	MAC2312	Elements of Statistics	3
Natural Sciences General Education*					
	Natural Science General Education Core Course	3		Natural Science General Education Course (Group A)	3
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Sciences General Education					
ECO2013	Macroeconomics	3	ECO2013	Principles of Economics Macro	3
	Social Science General Education Course**	3		Social Science General Education Course (Group A or B)	3
General Education Electives					
PHI2600	Ethics	3	PHI2603	Ethics in Contemporary Society	3
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
ECO2023	Microeconomics	3	ECO2023	Principles of Economics Micro	3
ACG2021	Financial Accounting Principles	3	ACG2021	Principles of Financial Accounting	3
ACG2071	Intro to Managerial Accounting	3	ACG2071	Principles of Managerial Accounting	3
CGS1570	Computer Concepts and Applications	3	CGS2570	Personal Computer Applications	3
COP2800	Java Programming	3	COP2253	Programming Using Java	3
COP2224	C++ Programming	3	COP2334	Programming Using C++	3
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
	Elective	3		Lower Division Elective	3
Total College Credit Hours		60	Total College Credit Hours		60

* If Biological Science is Core, then Physical Science must be Elective or Core. If Physical Science is Core, then Biological Science must be Elective or Core.

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Note: In addition to the University's general requirements, students seeking a UWF Hal Marcus College of Science and Engineering degree must meet additional requirements. Please refer to the [course catalog](#).