Transfer Guides

Pensacola State College | University of West Florida

Hal Marcus College of Science and Engineering

2023-2024





Biology, BS

PSC PSC Course

SUMF Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	cations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanitie:	s 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
Mathemati	ics 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 Sc.	iences General Education				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+	LGeneral Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology (+Lab)	4	BSC2010+I	L Biology I (+Lab)	4
Social Scie	ences 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 Ec	ducation Electives				
BSC1011+L	Principles of Biological Diversity (+La	ab) 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+I	L Organic Chemistry I (+Lab)	4
PHY1053+	L General Physics I (+Lab)	4	PHY2053+L	_ Algebra-Based Physics I (+Lab)	4
or	General Physics II (+Lab)	4	or	_ Algebra-Based Physics II +Lab	4
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 Colle	ege Credit Hours	60	Total Colle	ege Credit Hours	60

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

Biology Teaching, BA

PSC PSC Course

SUWF Equivalent UWF Course

Course #	Course Title	СС	Course #	Course Title	CC
Communic	ations 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
Mathematic	cs General Education				
STA2023 or	Elementary Statistics	3	STA2023 or	Elements of Statistics	3
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 Sci	ences General Education				
CHM1045+L	General Chemistry I (+Lab)	4	CHM2045+L	_ General Chemistry I (+Lab)	4
	Principles of Biology (+Lab)	4		_ Biology I (+Lab)	4
Social Scie	nces 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 Ed	lucation 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+I	L General Chemistry II (+Lab)	4
	Organic Chemistry I (+Lab)	4		L Organic Chemistry I (+Lab)	4
	General Physics I (+Lab)	4	PHY2053+l	_ Algebra-Based Physics I (+Lab)	4
PHY1054+L	. General Physics II (+Lab)	4	PHY2054+I	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 Colle	ge Credit Hours	60	Total Colle	ge Credit Hours	60

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.

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

Biomedical Sciences, BS

PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs General Education				
MAC2311 STA2023	Analytic Geometry and Calculus I Elementary Statistics	4 3	MAC2311 STA2023	Analytic Geometry and Calculus I Elements of Statistics	4 3
Natural Sci	iences General Education				
	L General Chemistry I (+Lab) - Principles of Biology (+Lab)	4		L General Chemistry I (+Lab) L Biology I (+Lab)	4 4
Social Scie	ences 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 Ec	lucation 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		_ General Chemistry II (+Lab)	4
	LOrganic Chemistry I (+Lab)	4		L Organic Chemistry I (+Lab)	4
	Organic Chemistry II (+Lab)	4		Organic Chemistry II (+Lab)	4
	L General Physics I (+Lab)	4		_ Algebra-Based Physics I (+Lab)	4
PHY1054+1	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 Colle	ege Credit Hours	60+	Total Colle	ge Credit Hours	60+

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

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

Chemistry, BA



PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101 ENC1102	English Composition I English Composition II	3 3	ENC1101 ENC1102	English Composition I English Composition II	3 3
Humanitie:	s 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
Mathemati	ics General Education				
MAC2311 MAC2312	Analytic Geometry and Calculus I Analytic Geometry and Calculus II	4	MAC2311 MAC2312	Analytic Geometry and Calculus I Analytic Geometry and Calculus II	4 4
Natural Sc.	iences General Education*				
CHM1045+	L General Chemistry I (+Lab) Natural Science General Education Core or Elective	4 3	CHM2045+I	L General Chemistry I (+Lab) Natural Science General Education Course (Group A or B)	4 3
Social Scie	ences 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 Ec	ducation Electives				
CHM1046+	L General Chemistry II (+Lab)	4	CHM2046+I	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
	Organic Chemistry II (+Lab)	4		Organic Chemistry II (+Lab)	4
	L Physics I with Calculus (+Lab)	5		L Calculus-Based Physics I (+Lab)	4
or	L Physics II with Calculus (+Lab)	5	or	L Calculus-Based Physics II (+Lab)	4
	L General Physics I (+Lab)	4		L Algebra-Based Physics I (+Lab)	4
PHY1054+1	L General Physics II (+Lab) Foreign Language I or Elective	3	PHY2054+	L Algebra-Based Physics II (+Lab) Foreign Language I or	3
	Foreign Language For Elective	3		Lower Division Elective	3
	Elective	0-1		Elective	1
Total Colle	ege Credit Hours	60+	Total Colle	ege Credit Hours	60

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.

^{*} 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.

Chemistry/Biochemistry, BA

PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs 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 Sci	iences General Education				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+	L General Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology (+Lab)	4	BSC2010+I	_ Biology I (+Lab)	4
Social Scie	nces 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 Ed	lucation Electives				
CHM1046+I	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		L Organic Chemistry I (+Lab)	4
	Organic Chemistry II (+Lab)	4		Organic Chemistry II (+Lab)	4
	L Physics I with Calculus (+Lab)	5		L Calculus-Based Physics I (+Lab)	4
PHY2049+I	L Physics II with Calculus (+Lab)	5	PHY2049+ or	L Calculus-Based Physics II (+Lab)	4
	L General Physics I (+Lab)	4		L Algebra-Based Physics I (+Lab)	4
PHY1054+I	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 Colle	ge Credit Hours	60+	Total Colle	ge Credit Hours	60

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

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

Chemistry Teaching, BA

PSC PSC Course

SOLUMN Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanitie:	s 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
Mathemati	ics General Education				
MAC2311 MAC2312	Analytic Geometry and Calculus I Analytic Geometry and Calculus II	4 4	MAC2311 MAC2312	Analytic Geometry and Calculus I Analytic Geometry and Calculus II	4 4
Natural Sc.	iences General Education*				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+I	L General Chemistry I (+Lab)	4
	Natural Science General Education	3		Natural Science General Education	3
	Core or Elective			Course (Group A or B)	
Social Scie	ences 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 Ed	ducation Electives				
CHM1046+	L General Chemistry II (+Lab)	4	CHM2046+I	_ General Chemistry II (+Lab)	4
	Foreign Language II or	3		Foreign Language II or	3
	General Education Elective			General Education Elective	
Electives					
CHM2210+	L Organic Chemistry I (+Lab)	4	CHM2210+	LOrganic Chemistry I (+Lab)	4
	Organic Chemistry II (+Lab)	4		Organic Chemistry II (+Lab)	4
	L Physics I with Calculus (+Lab)	5		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		
	L General Physics I (+Lab)	4		L Algebra-Based Physics I (+Lab)	4
PHY1054+	L General Physics II (+Lab)	3	PHY2054+	L Algebra-Based Physics II (+Lab) Foreign Language I or	3
	Foreign Language I or Elective	3		Lower Division Elective	3
	Elective	0-1		Lower Division Elective	1
					-
Total Colle	ege Credit Hours	60+	Total Colle	ge Credit Hours	60

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.

^{*} 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.

Chemistry, BS



PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs General Education				
MAC2311 MAC2312	Analytic Geometry and Calculus I Analytic Geometry and Calculus II	4	MAC2311 MAC2312	Analytic Geometry and Calculus I Analytic Geometry and Calculus II	4
Natural Sci	iences General Education*				
CHM1045+I	L General Chemistry I (+Lab) Natural Science General Education Core or Elective	4 3	CHM2045+	L General Chemistry I (+Lab) Natural Science General Education Course (Group A or B)	4
Social Scie	nces 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 Ed	lucation Electives				
CHM1046+I	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					
	L Organic Chemistry I (+Lab)	4	I	L Organic Chemistry I (+Lab)	4
	Organic Chemistry II (+Lab)	4		Organic Chemistry II (+Lab)	4
	L Physics I with Calculus (+Lab)	5		L Calculus-Based Physics I (+Lab)	4
PHY2049+I	L Physics II with Calculus Lab (+Lab)		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 Colle	ge Credit Hours	60+	Total Colle	ge Credit Hours	60

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.

^{*} 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.

Chemistry/Biochemistry, BS

PSC PSC Course

SUWF Equivalent UWF Course

Course #	Course Title	СС	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	ics 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 Sci	iences General Education				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+	LGeneral Chemistry I (+Lab)	4
BSC1010+L	Principles of Biology (+Lab)	4	BSC2010+	L Biology I (+Lab)	4
Social Scie	ences 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 Ed	lucation Electives				
CHM1046+I	L General Chemistry II (+Lab)	4	CHM2046+	L General Chemistry II (+Lab)	4
	Foreign Language II or	3		Foreign Language II or	3
	General Education Elective			General Education Elective	
Electives					
CHM2210+	LOrganic Chemistry I (+Lab)	4	CHM2210+	L Organic Chemistry I (+Lab)	4
	Organic Chemistry II (+Lab)	4		Organic Chemistry II (+Lab)	4
	L Physics I with Calculus (+Lab)	5		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 Colle	ege Credit Hours	60+	Total Colle	ege Credit Hours	60

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

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

Computer Engineering, BSCE



PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	СС	Course #	Course Title	СС
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs 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 Sci	iences General Education*				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+l	_General Chemistry I (+Lab)	4
	Natural Science General Education	3		Natural Science General Education	3
	Core or Elective			Course (Group A or B)	
Social Scie	nces 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 Ed	lucation Electives				
PHY2048+I	L Physics I with Calculus (+Lab)	5	PHY2048+L	Calculus-Based Physics I (+Lab)	4
	Foreign Language II or	3		Foreign Language II or	3
	General Education Elective			General Education Elective	
Electives					
PHY2049+I	L Physics II with Calculus (+Lab)	5	PHY2049+L	Calculus-Based Physics II (+Lab)	4
MAC2313	Analytic Geometry and Calculus III		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 Colle	ge Credit Hours	60	Total Colle	ge 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.

Computer Science, BS

PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	СС
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	ics 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 Sci	iences 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 Scie	ences General Education				
ECO2013	Macroeconomics Social Science General Education Course**	3 3	ECO2013	Principles of Economics Macro Social Science General Education Course (Group A or B)	3 3
General Ec	lucation 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+I	L Physics I with Calculus (+Lab)	5	PHY2048+I	L Calculus-Based Physics I (+Lab)	4
PHY2049+I	L Physics II with Calculus (+Lab)	5	PHY2049+I	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 Colle	ege Credit Hours	60	Total Colle	ge 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

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

Construction Management, BS

PSC PSC Course

SOLUMN Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communica	ations 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
Mathematic	cs General Education				
MAC2311 or	Analytic Geometry and Calculus I	4	MAC2311 or	Analytic Geometry and Calculus I	4
MAC2233	Calculus with Business Applications	3	MAC2233	Calculus with Business Applications	3
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
Natural Sci	ences 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 Scie	nces General Education				
ECO2013	Macroeconomics Social Science General Education Course**	3 3	ECO2013	Principles of Economics Macro Social Science General Education Course (Group A or B)	3
General Ed	ucation 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 CGS1570	Microeconomics Computer Concepts and Applications	3	ECO2023 CGS2570	Principles of Economics Micro Personal Computer Applications	3 3
ACG2021	Financial Accounting Principles	3	ACG2021	Principles of Financial Accounting	3
	Physics II (+Lab)	4		. 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 Colle	ge Credit Hours	60	Total Colle	ge Credit Hours	60

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.

^{*} 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.

Cybersecurity, BS



PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	cations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanitie	s 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
Mathemati	ics 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 Sc	iences General Education*				
PHY2048+I	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 Scie	ences 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 Ed	ducation 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 Colle	ege Credit Hours	60	Total Colle	ge Credit Hours	60

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.

^{*} 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.

Earth and Environmental Science Teaching, BA

PSC PSC Course

WF Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communica	ations 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
Mathematic	cs General Education				
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
MAC1147	Precalculus Algebra/Trigonometry	4	MAC1147	Precalculus with Trigonometry	4
Natural Scient	ences General Education				
	Introduction to Biology (+Lab) General Chemistry I (+Lab)	4 4		. General Biology for Non-Majors (+Lab . General Chemistry I (+Lab)) 4 4
Social Scien	nces 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 Ed	ucation 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 <i>or</i>	Physical Geology (+Lab)	4	GLY2010+L <i>or</i>	. Physical Geology (+Lab)	4
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 Colle	ge Credit Hours	60	Total Colle	ge Credit Hours	60

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.

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

Electrical Engineering, BSEE

PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs 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 Sci	iences General Education*				
CHM1045+I	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 Scie	nces 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 Ed	lucation Electives				
PHY2048+I	L Physics I with Calculus (+Lab)	5	PHY2048+I	_ Calculus-Based Physics I (+Lab)	4
	Foreign Language II or General Education Elective	3		Foreign Language II or General Education Elective	3
Electives					
PHY2049+I	L Physics II with Calculus (+Lab)	5	PHY2049+l	_ Calculus-Based Physics II (+Lab)	4
MAC2313	Analytic Geometry and Calulcus III	4	MAC2313	Analytic Geometry and Calulcus 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 Colle	ge Credit Hours	60	Total Colle	ge Credit Hours	60

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.

^{*} 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.

Engineering Technology, BS

PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	cations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	ics 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 Sc.	iences 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 Scie	ences 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 Ed	ducation 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 Colle	ege Credit Hours	60	Total Colle	ege Credit Hours	60

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.

^{*} 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.

Environmental Science, BS

ENVIRONMENTAL MANAGEMENT SPECIALIZATION



SUWF Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations 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
Mathemati	cs General Education				
MAC1140 STA2023	Precalculus Algebra Elementary Statistics	3 3	MAC1140 STA2023	Precalculus Algebra Elements of Statistics	3 3
Natural Sci	iences General Education				
	Introduction to Biology (+Lab) General Chemistry I (+Lab)	4 4		. General Biology for Non-Majors (+Lab . General Chemistry I (+Lab)) 4 4
Social Scie	nces General Education				
ANT2000 or	Introduction to Anthropology	3	ANT2000 or	Introduction to Anthropology	3
PSY2012	General Psychology	3	PSY2012	General Psychology	3
GEA2000 or	World Regional Geography	3	GEA2000 <i>or</i>	Nations and Regions of the World	3
ECO2013	Macroeconomics	3	ECO2013	Principles of Economics Macro	3
or INR2002 or	Intro to International Relations	3	or INR2002 or	International Politics	3
POS2041	American National Government*	3	POS2041	American Politics	3
General Ed	lucation Electives				
CHM1046+I	General Chemistry II (+Lab) Foreign Language II or General Education Elective	4 3	CHM2046+L	General Chemistry II (+Lab) Foreign Language II or General Education Elective	4 3
Electives					
BOT2010+L	General Botany (+Lab) Physical Geology (+Lab)	4		. General Botany (+Lab) . Physical Geology (+Lab)	4
~-	. Earth Science (+Lab)	4	•	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 Colle	ge Credit Hours	60	Total Colle	ge Credit Hours	60

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**.

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

Environmental Science, BS

NATURAL SCIENCE SPECIALIZATION

PSC	DCC	Course
	F3C	Course

SUWF Equivalent UWF Course

100						
Course #	Course Title	СС		Course #	Course Title	СС
Communic	ations General Education		П			
ENC1101	English Composition I	3		ENC1101	English Composition I	3
ENC1102	English Composition II	3		ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs 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 Sci	iences General Education*					
CHM1045+I	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 Scie	nces General Education					
ANT2000 or	Introduction to Anthropology	3		ANT2000 or	Introduction to Anthropology	3
PSY2012	General Psychology	3		PSY2012	General Psychology	3
GEA2000 or	World Regional Geography	3		GEA2000 or	Nations and Regions of the World	3
ECO2013 or	Macroeconomics	3		ECO2013 or	Principles of Economics Macro	3
INR2002 or	Intro to International Relations	3		INR2002 or	International Politics	3
POS2041	American National Government**	3	ĮΙ	POS2041	American Politics	3
General Ed	lucation Electives					
CHM1046+I	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						
	General Botany (+Lab)	4			General Botany (+Lab)	4
or	Physical Geology (+Lab)	4		or	Physical Geology (+Lab)	4
	Earth Science (+Lab)	4			Intro to Earth Science (+Lab)	4
or	Physics I with Calculus (+Lab)	5		or	Calculus-Based Physics I (+Lab)	4
PHY1053+L	General Physics I (+Lab)	4		PHY1053+L	Algebra-Based Physics I (+Lab)	3
	Foreign Language I or Elective	3			Foreign Language I or Lower Division Elective	3
	Electives	5-6			Lower Division Electives	6
Total Colle	ge Credit Hours	60		Total Colle	ge 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.

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**.

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

Information Technology, BS

PSC PSC Course

SOLUMN Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101 ENC1102	English Composition I English Composition II	3 3	ENC1101 ENC1102	English Composition I English Composition II	3 3
Humanities	s 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
Mathemati	cs General Education				
MAC2233 STA2023	Calculus with Business Applications Elementary Statistics	I 3 3	MAC2233 STA2023	Calculus with Business Applications Elements of Statistics	s 3 3
Natural Sci	iences 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 Scie	ences General Education				
ECO2013	Macroeconomics Social Science General Education Course**	3	ECO2013	Principles of Economics Macro Social Science General Education Course (Group A or B)	3
General Ed	ducation Electives				
PSY2012	General Psychology Foreign Language II or General Education Elective	3 3	PSY2012	General Psychology Foreign Language II or General Education Elective	3 3
Electives					
CGS1570	Computer Concepts and Applications	s 3	CGS2570	Personal Computer Applications	3
COP2224 or	C++ Programming	3	COP2334 or	Programming Using C++	3
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 Colle	ege Credit Hours	60	Total Colle	ge Credit Hours	60

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.

^{*} 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.

Interdisciplinary Sciences, BS

BIOLOGY AND COMPUTER SCIENCE TRACK



SUMF Equivalent UWF Course

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Course #	Course Title	CC	Course #	Course Title	CC
Communic	cations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanitie	s 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
Mathemati	ics General Education				
MAC2311 or	Analytic Geometry and Calculus I	4	MAC2311 or	Analytic Geometry and Calculus I	4
STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
	Mathematics General Education Course	3		Mathematics General Education Course (Group A or B)	3
Natural Sc	iences 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+I	_ Biology I (+Lab)	4
Social Scie	ences 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 Ed	ducation Electives				
BSC1011+L	Principles of Biological Diversity (+La	ab)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+I	General Chemistry II (+Lab)	4
	L Organic Chemistry I (+Lab)	4		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
	L Physics I with Calculus (+Lab) L Physics II with Calculus (+Lab)	5 5		_ Calculus-Based Physics I (+Lab) L Calculus-Based Physics II (+Lab)	4
	L General Physics I (+Lab)	4		_ Algebra-Based Physics I (+Lab)	4
	General Physics II (+Lab)	4		_ Algebra-Based Physics II (+Lab)	4
	Foreign Language I or Elective	3		Foreign Language I or Lower Division Elective	3
Total Colle	ege Credit Hours	60+	Total Colle	ge 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	PSC	Course
		Course

Total College Credit Hours

SUWF Equivalent UWF Course

ENCTIO1 English Composition I 3 ENCTIO2 English Composition I 3 ENCTIO2 English Composition I 3 ENCTIO2 English Composition II 4 Internation English Course (Group A or B) English Composition II 4 Internation English Course (Group A or B) English Composition II 4 Internation English Course (Group A or B) English Course (Group A or B					•	
ENC1101 English Composition I 3 ENC1102 English Composition I 3 ENC1102 English Composition I 3 ENC1102 English Composition II 2 English Compo	Course #	Course Title	СС	Course #	Course Title	CC
ENC1102 English Composition II 3 ENC1102 English Composition II 3 Humanities General Education Humanities General Education 3 Core Course Humanities General Education 3 Course (Group A) Humanities General Education 3 Course (Group A or B) Humanities General Education Course (Group A or B) Mathematics General Education Course (Group A or B) Mathematics General Education MAC2311 Analytic Geometry and Calculus I 4 or STA2023 Elementary Statistics 3 Mathematics General Education Course (Group A or B) Mathematics General Education 3 Mathematics General Education Course (Group A or B) Mathematics General Education Course (Group A) Social Science General Education Course (Group A) Social Science General Education Course (Group A) Social Science General Education Course (Group A) Goral Science General Education Course (Group A) Social Science General Education Course (Group A) Social Science General Education Goral General Education Goral General Education Elective General Education Elective General Education Elective Flectives Electives CHM046+L General Chemistry II (+Lab) 4 BSC2011+L Biology II (+Lab) 4 BSC2011+L Biology II (+Lab) 4 BSC2011+L Biology II (+Lab) 4 PHY2048+L Calculus-Based Physics II (+Lab) 4 PHY2053+L Algebra-Based Physics II (+Lab	Communic	ations General Education				
Humanities General Education Humanities General Education 3 Core Course Humanities General Education 3 Course (Group A) Humanities General Education Course (LIT, AML, or ENL prefix) Mathematics General Education MAC2311 Analytic Geometry and Calculus I 4 or STA2023 Elementary Statistics 3 Mathematics General Education 3 Course (Group A or B) Natural Sciences General Education 4 BSC1010+L Principles of Biology I (+Lab) 4 BSC2010+L Physical Geology (+Lab) 4 BSC2010+L Physical Geology (+Lab) 4 Foreign Language II or 3 General Education Elective Electives CHMI045+L General Chemistry II (+Lab) 4 Foreign Language II or 3 General Education Elective Electives CHMI046+L General Botany (+Lab) 5 PHY2048+L Calculus-Based Physics I (+Lab) 4 PHY2048+L Physics I with Calculus (+Lab) 5 PHY2048+L Calculus-Based Physics I (+Lab) 4 PHY2054+L Algebra-Based Physics II (+Lab) 4 PHY2054+L Algebra-Based Physics II (+Lab) 4	ENC1101	English Composition I	3	ENC1101	English Composition I	3
Humanities General Education Core Course Humanities General Education Course (Group A) Humanities General Education Course (LIT, AML, or ENL prefix) Mathematics General Education MAC2311 Analytic Geometry and Calculus I or STA2023 Elementary Statistics Mathematics General Education Course Group A or B) Mathematics General Education STA2023 Elementary Statistics Mathematics General Education Course Group A or B) Mathematics General Education Course Group A or B) MAC2311 Analytic Geometry and Calculus I or STA2023 Elements of Statistics Mathematics General Education Course Group A or B) Natural Sciences General Education Course (Group A or B) Mathematics General Education Course Group A or B) Mathematics General Education Course Group A or B) MAC2311 Analytic Geometry and Calculus I or STA2023 Elements of Statistics Mathematics General Education Course (Group A or B) Mathematics General Education Course (Group A or B) Mathematics General Education Course (Group A or B) CHM2045+L General Chemistry I (+Lab) 4 BSC2010+L Biology I (+Lab) Social Science General Education Course (Group A) Social Science General Education Course (Group A or B) General Education Electives General Education Electives GLY2010+L Physical Geology (+Lab) Foreign Language II or General Education Elective Electives CHM2046+L General Chemistry II (+Lab) 4 BSC2011+L Biology II (+Lab) 4 Foreign Language II or General Education Elective BSC2011+L Biology II (+Lab) 4 BSC2011+L Biology II (+Lab) 5 BSC201	ENC1102	English Composition II	3	ENC1102	English Composition II	3
Core Course Humanities General Education Course (LIT, AML., or ENL prefix) Mathematics General Education MAC2311 Analytic Geometry and Calculus I 4 or STA2023 Elementary Statistics 3 Mathematics General Education Course (Group A or B) MAC2311 Analytic Geometry and Calculus I 4 or STA2023 Elementary Statistics 3 Mathematics General Education Course (Group A or B) Matural Sciences General Education CHMI045+L General Chemistry I (+Lab) 4 BSC1010+L Principles of Biology (+Lab) 4 BSC2010+L Biology I (+Lab) 4 BSC2010+L Biology I (+Lab) 4 BSC2010+L Biology I (+Lab) 4 BSC2010+L Principles General Education 3 Core Course Social Science General Education 3 Course (Group A) Social Science General Education 4 Social Science General 4 Social Science General 4 S	Humanities	s General Education				
Course (LIT, AML, or ENL prefix) Mathematics General Education MAC2311 Analytic Geometry and Calculus I 4 or STA2023 Elementary Statistics 3 Mathematics General Education Course Natural Sciences General Education CHMI045+L General Chemistry I (+Lab) 4 BSC1010+L Principles of Biology I (+Lab) 4 BSC2010+L Biology I (+Lab) 4 Social Science General Education Course Social Science General Education Social Science General Education Course (Group A or B) Social Science General Education Social Science General Education Course (Group A) Social Science General Education Social Science General Education Course (Group A) Social Science General Education Social Science General Education Course (Group A or B) General Education Electives GLY1010+L Physical Geology (+Lab) 4 Foreign Language II or General Education Elective Electives CHMI046+L General Chemistry II (+Lab) 4 Foreign Language II or General Education Elective Electives CHMI046+L General Botany (+Lab) 4 SSC2010+L Biology II (+Lab) 4 SSC2010+L Biology II (+Lab) 4 Foreign Language II or General Education Elective Electives CHMI046+L General Botany (+Lab) 4 SSC2010+L Biology II (+Lab) 4 SSC2010+L Biolog			3			3
MAC2311 Analytic Geometry and Calculus I 4 or STA2023 Elementary Statistics 3 Mathematics General Education Course Group A or B) Natural Sciences General Education CHM1045+L General Chemistry I (+Lab) 4 BSC2010+L Biology I (+Lab) 4 BSC2010+L Physical Geology (+Lab) 4 Foreign Language II or General Education Elective Elective Elective General Botany (+Lab) 5 or PHY1053+L General Physics II (+Lab) 4 Foreign Language I or Elective Incomplete Algebra-Based Physics II (+Lab) 4 Eoreign Language I or Elective Elective Elective Incomplete Algebra-Based Physics II (+Lab) 4 Eoreign Language I or Elective Elective Elective Incomplete Algebra-Based Physics II (+Lab) 4 Eoreign Language I or Elective Elective Incomplete Algebra-Based Physics II (+Lab) 4 Eoreign Language I or Elective Elective Incomplete Elective Incomplete Elective Incomplete Elective Incomplete Elective Incomplete Elective Incomplete Incomplete Elective Incomplete Elective Incomplete Incomplete Elective Incomplete Elective Incomplete In			3			3
or STA2023 Elementary Statistics Mathematics General Education Course Natural Sciences General Education CHMI045+L General Chemistry I (+Lab) Social Science General Education Course (Group A or B) General Education Electives GLY1010+L Physical Geology (+Lab) Foreign Language II or General Education Elective Electives CHMI046+L General Chemistry II (+Lab) A BSC1011+L Principles of Biological Diversity (+Lab) Or BOT2010+L General Botany (+Lab) A FHY2048+L Physics I with Calculus (+Lab) FHY2049+L Physics I with Calculus (+Lab) Or PHY1053+L General Physics I (+Lab) Foreign Language I or Elective Elective Elective Elective Elective CHM2046+L General Botany (+Lab) Foreign Language I or Elective FHY2054+L Algebra-Based Physics I (+Lab) Foreign Language I or Elective Elective Elective CHM2045+L Algebra-Based Physics I (+Lab) A PHY2054+L Algebra-Based Physics I (+Lab) Foreign Language I or Elective Elective Elective Elective Elective Lower Division Elective I-Lower Divisi	Mathemati	cs General Education				
Mathematics General Education Course (Group A or B) Natural Sciences General Education CHM1045+L General Chemistry I (+Lab) 4 BSC1010+L Principles of Biology I (+Lab) 4 Social Sciences General Education Social Science General Education Course (Group A) Social Science General Education Course (G		Analytic Geometry and Calculus I	4		Analytic Geometry and Calculus I	4
Mathematics General Education Course Natural Sciences General Education CHM1045+L General Chemistry I (+Lab) BSC1010+L Principles of Biology I (+Lab) Social Sciences General Education Social Science General Education Course (Group A) Social Science General Education Social Science General Education Course (Group A) Social Science General Education Course (Group A) Social Science General Education Course (Group A or B) General Education Electives GLY1010+L Physical Geology (+Lab) Foreign Language II or General Education Elective Electives CHM1046+L General Chemistry II (+Lab) ABSC1011+L Principles of Biological Diversity (+Lab) Or BOT2010+L General Botany (+Lab) APHY2029+L Physics I with Calculus (+Lab) APHY2029+L Physics I with Calculus (+Lab) Or PHY1053+L General Physics I (+Lab) Foreign Language I or Elective Elective Elective CHM2046+L Algebra-Based Physics I (+Lab) APHY2054+L Algebra-Based Physics I (+Lab) APHY2054+L Algebra-Based Physics II (+Lab) APHY2054+L Algebra-Based Physics II (+Lab) Foreign Language I or Elective Elective Elective Elective Lower Division Elective I-Laby APHY2054+L Algebra-Based Physics II (+Lab) APHY2054+L Algebra-Based Physics II (+	STA2023	Elementary Statistics	3	STA2023	Elements of Statistics	3
CHM1045+L General Chemistry (+Lab) 4 BSC1010+L Principles of Biology (+Lab) 4 BSC2010+L Biology (+Lab) 4 BSC2010+L Biology (+Lab) 4 Social Science General Education Social Science General Education 3 Core Course Social Science General Education 3 Social Science General Education 3 Course (Group A) Social Science General Education 3 Course (Group A) Social Science General Education 3 Course (Group A) Social Science General Education 3 Course (Group A or B) General Education Electives GLY1010+L Physical Geology (+Lab) 4 Foreign Language II or 3 General Education Elective Electives CHM1046+L General Chemistry II (+Lab) 4 BSC1011+L Principles of Biological Diversity (+Lab) 4 Or BOT2010+L General Botany (+Lab) 5 PHY2048+L Physics I with Calculus (+Lab) 5 PHY2048+L Physics II with Calculus (+Lab) 5 Or BOT2010+L General Physics II (+Lab) 4 PHY1053+L General Physics I (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY2054+L Algebra-Based Physics II (+Lab) 4 PHY2054+L Algebr			3			3
BSC1010+L Principles of Biology I (+Lab) 4 Social Sciences General Education Social Science General Education 3 Core Course Social Science General Education 3 Course (Group A) Social Science General Education 3 Social Science General Education 3 Course (Group A or B) General Education Electives GLY1010+L Physical Geology (+Lab) 4 Foreign Language II or 3 General Education Elective Electives CHM1046+L General Chemistry II (+Lab) 4 BSC1011+L Principles of Biological Diversity (+Lab) 4 Or BOT2010+L General Botany (+Lab) 4 PHY2048+L Physics I with Calculus (+Lab) 5 PHY2048+L Physics I with Calculus (+Lab) 5 Or PHY1053+L General Physics I (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY2054+L Algebra-Based Physics II (+Lab) 4 PHY2054+L Algebra	Natural Sci	iences General Education				
Social Sciences General Education Social Science General Education Course (Group A) Social Science General Education Social Science General Education Course (Group A or B) General Education Electives GLY1010+L Physical Geology (+Lab) Foreign Language II or General Education Elective Electives CHM1046+L General Chemistry II (+Lab) Foreign Education Elective Electives CHM1046+L General Chemistry II (+Lab) Foreign Education Elective Electives CHM1046+L General Botany (+Lab) Foreign Education	CHM1045+I	_ General Chemistry I (+Lab)	4	CHM2045+L	_ General Chemistry I (+Lab)	4
Social Science General Education 3 Core Course Social Science General Education 3 Course* General Education Electives GLY1010+L Physical Geology (+Lab) 4 Foreign Language II or 3 General Education Elective Electives CHM1046+L General Chemistry II (+Lab) 4 BSC1011+L Principles of Biological Diversity (+Lab) 4 PHY2048+L Physics I with Calculus (+Lab) 5 PHY2029+L Physics II with Calculus (+Lab) 5 Or PHY1053+L General Physics I (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY2054+L Algebra-Based Physics		• , ,	4		3 , .	4
Core Course Social Science General Education Course* General Education Electives GLY1010+L Physical Geology (+Lab) Foreign Language II or General Education Elective GHM1046+L General Chemistry II (+Lab) BSC1011+L Principles of Biological Diversity (+Lab)4 or BOT2010+L General Botany (+Lab) PHY2048+L Physics I with Calculus (+Lab) PHY2029+L Physics II with Calculus (+Lab) or PHY1053+L General Physics I (+Lab) Foreign Language I or Elective CHM2046+L General Botany (+Lab) PHY2029+L Calculus-Based Physics I (+Lab) PHY2029+L Algebra-Based Physics II (+Lab) Foreign Language I or Elective Course (Group A) Social Science General Education General Education Foreign Language II or General Education Elective CHM2046+L Physical Geology (+Lab) BCLY2010+L Physical Geology (+Lab) 4 BSC2011+L Biology II (+Lab) BSC2011+L Biology II (+Lab) PHY2048+L Calculus-Based Physics I (+Lab) PHY2029+L Calculus-Based Physics I (+Lab) Or PHY2053+L Algebra-Based Physics II (+Lab) PHY2054+L Algebra-Based Physics II (+Lab) Foreign Language I or Lower Division Elective 1-2 1-3 1-4 1-5 1-5 1-5 1-5 1-5 1-5 1-5	Social Scie	nces General Education				
Course* Course Group A or B) General Education Electives GLY1010+L Physical Geology (+Lab) 4 Foreign Language II or 3 General Education Elective General Education Elective Electives CHM1046+L General Chemistry II (+Lab) 4 BSC1011+L Principles of Biological Diversity (+Lab) 4 Or BOT2010+L General Botany (+Lab) 4 PHY2048+L Physics I with Calculus (+Lab) 5 PHY2048+L Physics II with Calculus (+Lab) 5 Or PHY1053+L General Physics I (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY2054+L Algebra-Based Physics			3			3
GLY1010+L Physical Geology (+Lab) Foreign Language II or General Education Elective Electives CHM1046+L General Chemistry II (+Lab) BSC1011+L Principles of Biological Diversity (+Lab) 4 BOT2010+L General Botany (+Lab) PHY2048+L Physics I with Calculus (+Lab) PHY2029+L Physics II with Calculus (+Lab) or PHY1053+L General Physics I (+Lab) Foreign Language II or General Education Elective CHM2046+L General Chemistry II (+Lab) BSC2011+L Biology II (+Lab) Or BOT2010+L General Botany (+Lab) PHY2048+L Calculus-Based Physics I (+Lab) PHY2029+L Calculus-Based Physics II (+Lab) Or PHY1053+L General Physics II (+Lab) Foreign Language I or Elective Foreign Language I or Elective Elective O-2 Lower Division Elective 1			3			3
Foreign Language II or General Education Elective Electives CHM1046+L General Chemistry II (+Lab) 4 BSC1011+L Principles of Biological Diversity (+Lab) 4 BOT2010+L General Botany (+Lab) 4 BOT2010+L Physics I with Calculus (+Lab) 5 PHY2048+L Physics II with Calculus (+Lab) 5 PHY2029+L Physics II with Calculus (+Lab) 5 PHY1053+L General Physics I (+Lab) 4 PHY1053+L General Physics II (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY2054+L Algebra-Based Phys	General Ed	lucation Electives				
Foreign Language II or General Education Elective Electives CHM1046+L General Chemistry II (+Lab) 4 BSC1011+L Principles of Biological Diversity (+Lab) 4 BOT2010+L General Botany (+Lab) 4 BOT2010+L Physics I with Calculus (+Lab) 5 PHY2048+L Physics II with Calculus (+Lab) 5 PHY2029+L Physics II with Calculus (+Lab) 5 PHY1053+L General Physics I (+Lab) 4 PHY1053+L General Physics II (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY2054+L Algebra-Based Phys	GLY1010+L	Physical Geology (+Lab)	4	GLY2010+l	_ Physical Geology (+Lab)	4
CHM1046+L General Chemistry II (+Lab) 4 BSC1011+L Principles of Biological Diversity (+Lab) 4 or BOT2010+L General Botany (+Lab) 4 PHY2048+L Physics I with Calculus (+Lab) 5 PHY2048+L Physics II with Calculus (+Lab) 5 Or PHY1053+L General Physics I (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY2053+L Algebra-Based Physics II (+Lab) 4 PHY2054+L Algebra-Based Physics II (+La			3		Foreign Language II or	3
BSC1011+L Principles of Biological Diversity (+Lab) 4 or BOT2010+L General Botany (+Lab) 4 PHY2048+L Physics I with Calculus (+Lab) 5 PHY2029+L Physics II with Calculus (+Lab) 5 or PHY1053+L General Physics I (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 PHY1054+L General Physics II (+Lab) 4 Foreign Language I or Elective 5 Elective 0-2 BSC2011+L Biology II (+Lab) 4 BOT2010+L General Botany (+Lab) 4 PHY2048+L Calculus-Based Physics I (+Lab) 4 PHY2048+L Calculus-Based Physics II (+Lab) 4 PHY2053+L Algebra-Based Physics II (+Lab) 4 PHY2054+L Algebra-Based Physics II (+Lab) 4 Foreign Language I or 15 Lower Division Elective 1-15	Electives					
PHY2048+L Physics I with Calculus (+Lab) PHY2029+L Physics II with Calculus (+Lab) or PHY1053+L General Physics I (+Lab) PHY1054+L General Physics II (+Lab) Foreign Language I or Elective Elective PHY2048+L Calculus-Based Physics I (+Lab) PHY2029+L Calculus-Based Physics II (+Lab) PHY2029+L Calculus-Based Physics II (+Lab) PHY2053+L Algebra-Based Physics I (+Lab) PHY2053+L Algebra-Based Physics II (+Lab) PHY2054+L Algebra-Based Physics II (+Lab	BSC1011+L			BSC2011+L	- · · · · · · · · · · · · · · · · · · ·	4
PHY2048+L Physics I with Calculus (+Lab) PHY2029+L Physics II with Calculus (+Lab) or PHY1053+L General Physics I (+Lab) PHY1054+L General Physics II (+Lab) Foreign Language I or Elective Elective PHY2048+L Calculus-Based Physics I (+Lab) PHY2029+L Calculus-Based Physics II (+Lab) PHY2053+L Algebra-Based Physics I (+Lab) PHY2053+L Algebra-Based Physics II (+Lab) PHY2054+L Algebra-Based Physics II (+Lab)	BOT2010+L	General Botany (+Lab)	4	BOT2010+L	General Botany (+Lab)	
PHY1053+L General Physics I (+Lab) PHY1054+L General Physics II (+Lab) Foreign Language I or Elective Elective O-2 PHY2053+L Algebra-Based Physics I (+Lab) PHY2054+L Algebra-Based Physics II (+Lab) Foreign Language I or Lower Division Elective 1-1	PHY2029+L	· · · · · · · · · · · · · · · · · · ·		PHY2029+	- · · · · · · · · · · · · · · · · · · ·	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 Lower Division Elective 1-2		Gonoral Physics I (+1 2h)	<i>A</i>	-	Machra-Rasad Physics I (+1 ah)	1
Foreign Language I or Elective 3 Foreign Language I or 3 Lower Division Elective Elective 0-2 Lower Division Elective 1-						4
Elective 0-2 Lower Division Elective 1-		• • • • • • • • • • • • • • • • • • • •		111203411	Foreign Language I or	3
		Elective	0-2			1-2
	T. L. I G "	and Consults II and and	66 -	-	Co. dia lia lia con	

^{*} 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.

60+

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**.

21 101823

60

Total College Credit Hours

Interdisciplinary Sciences, BS

COMPUTER SCIENCE AND EARTH & ENVIRONMENTAL SCIENCE TRACK



SUWF Equivalent UWF Course

				•	
Course #	Course Title	СС	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs 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 Sci	iences General Education				
CHM1045+I	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 Scie	nces 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 Ed	lucation Electives				
BSC1011+L	Principles of Biological Diversity (+La	ab)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
	L Physics I with Calculus (+Lab)	5		L Calculus-Based Physics I (+Lab)	4
PHY2029+L or	Physics II with Calculus (+Lab)	5	PHY2029+ <i>or</i>	L Calculus-Based Physics II (+Lab)	4
	_ General Physics I (+Lab)	4		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 Colle	ge Credit Hours	60+	Total Colle	ege Credit Hours	60+

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**.

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

Marine Biology, BS

PSC PSC Course

SUWF Equivalent UWF Course

				_	
Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	ics 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 Sci	iences General Education				
CHM1045+I	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 Scie	ences 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 Ed	ducation Electives				
BSC1011+L	Principles of Biological Diversity (+La	b) 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
	L Organic Chemistry I (+Lab) L Organic Chemistry II (+Lab)	4		L Organic Chemistry I (+Lab) L Organic Chemistry II (+Lab)	4
	L General Physics I (+Lab)	4		L Algebra-Based Physics I (+Lab)	4
	General Physics II (+Lab)	4		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 Colle	ege Credit Hours	60	Total Colle	ege Credit Hours	60

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

Mathematics, BS

PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs 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 Sci	iences General Education*				
	Natural Science General Education Core Course	3		Natural Science General Education Course (Group A)	3
	Natural Science General Education	4		Natural Science General Education	4
	Course (+Lab)			Course (+Lab)	
	(BSC, CHM, PHY, or GLY prefix)			(Group A or B)	
Social Scie	nces 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 Ed	lucation Electives				
	General Education Elective	3		General Education Elective	3
	Foreign Language II or	3		Foreign Language II or	3
	General Education Elective			General Education Elective	
Electives					
MAC2313	Analytic Geometry and Calculus III		MAC2313	Analytic Geometry and Calculus III	4
MAP2302	Differential Equations	3	MAP2302		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 Elective	8
Total Colle	ge Credit Hours	60	Total Colle	ge Credit Hours	60
. Julia Cone	ge elemit flouis	55	Iotal Colle	Se elegit lionis	50

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.

^{*} 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.

Mathematics Teaching, BA

PSC PSC Course

SOLUMN Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
NC1101	English Composition I	3	ENC1101	English Composition I	3
NC1102	English Composition II	3	ENC1102	English Composition II	3
lumanities	s 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
1athemati	ics General Education				
1AC2311	Analytic Geometry and Calculus I	4	MAC2311	Analytic Geometry and Calculus I	4
1AC2312	Analytic Geometry and Calculus II	4	MAC2312	Analytic Geometry and Calculus II	4
latural Sci	iences General Education*				
	Natural Science General Education Core Course	3		Natural Science General Education Course (Group A)	
	Natural Science General Education Course (+Lab) (BSC, CHM, PHY, or GLY prefix)	4		Natural Science General Education Course (+Lab) (Group A or B)	4
ocial Scie	ences 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 Ed	lucation 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
lectives					
1AC2313 1AP2302	Analytic Geometry and Calculus III Differential Equations	4	MAC2313 MAP2302	Analytic Geometry and Calculus III Differential Equations	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
	Electives	8		Lower Division Electives	8
otal Colle	ege Credit Hours	60	Total Colle	ge Credit Hours	60

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.

^{*} 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.

Mechanical Engineering, BSME

PSC PSC Course

WF Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs 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 Sc.	iences General Education*				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+I	_ General Chemistry I (+Lab)	4
	Natural Science General Education Core or Elective	3		Natural Science General Education Course (Group A or B)	3
Social Scie	ences 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 Ed	lucation Electives				
PHY2048+	L Physics I with Calculus (+Lab)	5	PHY2048+I	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+I	LCalculus-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 Colle	ege Credit Hours	60	Total Colle	ge Credit Hours	60

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.

^{*} 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.

Engineering Physics, BS

PSC PSC Course

Solution Solution Solution

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	ics 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 Sci	iences General Education*				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+I	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 Scie	ences 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 Ec	lucation 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
	L Physics I with Calculus (+Lab)	5		L Calculus-Based Physics I (+Lab)	4
	L Physics II with Calculus (+Lab)	5		LCalculus-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 Colle	ge Credit Hours	60	Total Colle	ge Credit Hours	60

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.

^{*} 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.

Physics, BS

PSC PSC Course

SUWF Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	ics 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 Sc.	iences General Education*				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+I	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 Scie	ences 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 Ed	lucation 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
	L Physics I with Calculus (+Lab)	5		L Calculus-Based Physics I (+Lab)	4
PHY2049+	L Physics II with Calculus (+Lab)	5	PHY2049+	LCalculus-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 Colle	ege Credit Hours	60	Total Colle	ge Credit Hours	60

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**.

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

Physics, BA

PSC PSC Course

SUMF Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanities	s 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
Mathemati	cs 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 Sc.	iences General Education*				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+I	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 Scie	ences 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 Ed	lucation 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 Colle	ege Credit Hours	60	Total Colle	ege Credit Hours	60

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Physics Teaching, BA

PSC PSC Course

WF Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	CC
Communic	ations General Education				
ENC1101	English Composition I	3	ENC1101	English Composition I	3
ENC1102	English Composition II	3	ENC1102	English Composition II	3
Humanitie	s 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
Mathemati	ics 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 Sc.	iences General Education*				
CHM1045+	L General Chemistry I (+Lab)	4	CHM2045+I	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 Scie	ences 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 Ec	ducation 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	s 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 Colle	ege Credit Hours	60	Total Colle	ege Credit Hours	60

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.

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Software Design & Development, BS



PSC PSC Course

SOURT Equivalent UWF Course

Course #	Course Title	CC	Course #	Course Title	СС
Communic	ations 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
Mathemati	cs 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 Sci	iences 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 Scie	nces 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 Ed	lucation 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 Accountin	
CGS1570	Computer Concepts and Applications		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 Colle	ge Credit Hours	60	Total Colle	ge Credit Hours	60

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.

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