

Program Planning Materials

The Program Planning Materials PDF file contains a printed version of our MS Excel workbook, [Program Planner](#). The spreadsheets within the [workbook](#) can be used to produce a program plan for any of our majors.

Course Offerings by Term

Courses are not offered every term or, in some cases, every year. This worksheet shows when specific courses are offered. There is a repeating two-year cycle.

Courses and Pre-requisites

This worksheet shows the required courses in our programs, their credit hours, UCC hours and a list of pre- or co-requisites. All courses have pre-requisites or co-requisites. Prerequisites must be successfully completed prior to the beginning of the course. Co-requisites (parallel courses) must be completed at the same time.

Program Planner Instructions

When students come to the university with a definite major in mind, the appropriate worksheet provides a plan for completing required courses in that major. The goal is to complete all graduation requirements in four years (eight semesters). It is likely that some changes to this plan will be required due to external limitations and personal preferences. Such changes should be modest and should permit completion within the four year time frame.

When a student decides to change majors after arrival, the initial plans provided are no longer appropriate and significant changes will have to be made. It is not uncommon when starting late for students to require an additional semester or two to fulfill requirements for the major. The Year Five semesters will then come into play. They will also be required for many students who decide to complete a double major.

Copy the worksheet containing the major you want to complete. Edit the copy to reflect your academic program.

Major Worksheet Layouts

Four Year (Eight Semester) or Five Year (Ten Semester) Plans with Fall and Spring Semesters

Course ID - course prefix and number

Course Hours - total credit hours for course

University Core Curriculum Hours - credit hours in UCC-21

Major Requirements

Course ID - course prefix and number

Course Hours - total credit hours for course

Tracking - the yellow boxes should be filled with the cell numbers from the 8 or 10 semester plan where the course appears. This permits you to check off the courses in your plan to avoid accidental omission.

University Core Curriculum (UCC) Requirements

Students who enroll at BSU on or after Fall Semester 2010 are on the new UCC-21 system and have to complete 36 hours of UCC courses. (Some students can exempt from ENG 103 and get automatic credit for 3 hours.) The UCC-21 required course requirements are listed on the worksheets below the major requirements. The UCC credit hour counters will keep track of UCC hours.

Students who enrolled at BSU prior to Fall Semester 2010 are on the old UCC system and have to complete 41 hours. The UCC required courses listed on the worksheets are different. The UCC credit hour counters will still work, but the course list is not the same.

Worksheet Editing

Editing the 8 & 10 Semester Plans (green cells) - Enter the courses from your program into the appropriate worksheet. Fill in the course hours in the next column. If the course carries UCC-21 credit, enter the UCC hours in the third column. (Some 4 and 5 hour courses only count for 3 hours credit in UCC-21) The semester and grand totals for hours should keep track of your credit hours automatically. [You might want to change the semester labels from Freshman, Sophomore etc. to match your situation.]

Editing the Major and UCC Requirements (Yellow Cells Only) - Enter the cell reference from the 8 or 10 semester plan for each required major or UCC-21 course in the yellow box. This is your check to ensure that you are accounting for all required courses.

You can insert rows in the worksheet without corrupting the automatic counters if you select the row number on the left, right click in select "insert".

I would recommend that you insert summer classes at the bottom of the previous Spring Semester to minimize complexity of the worksheet. If you are fairly familiar with spreadsheets you can create separate displays for summers, but these will require modification of the automatic summing references to maintain accuracy.

Major Course and UCC-21 Course Considerations

Make certain that you complete all pre-requisites for each course. The Tier 2 and 3 courses of UCC-21 may have pre-requisites as well.

Make certain that you know when specific courses are offered. Most advanced courses are only offered in fall or spring semesters. Some courses are only offered in alternate years.

University Core Curriculum Considerations

In most physics majors MATHS 165 counts for 3 hours UCC-21 credit and PHYCS 120 counts for 3 hours Tier 1 Natural Science credit. In programs where CHEM 112 is required, it counts for 3 hours UCC-21 Natural Science Tier 2 credit.

It is probably a good idea to complete the UCC-21 communications requirements as early as possible. The skills learned in these courses will be used in most other college courses and it is to your advantage to master these skills early rather than late.

Course ID and Title

**Crs UCC
Hrs Hrs**

Pre-requisites and Co-requisites (CoR = Parallel)

MATHS 161 Applied Calculus 1	4	3	MATHS 112 (or equivalent)
MATHS 162 Applied Calculus 2	4		MATHS 161 or MATHS 165
MATHS 165 Calculus 1	4	3	MATHS 112 (or equivalent)
MATHS 166 Calculus 2	4		MATHS 165
MATHS 217 Linear Algebra	4		MATHS 159, MATHS 162 or MATHS 165 or permission
MATHS 267 Calculus 3	4		MATHS 166
PHYCS 115 Career Issues	1		None
PHYCS 120 General Physics 1	5	3	MATHS 165 (CoR) preferred or MATHS 161 (CoR)
PHYCS 122 General Physics 2			PHYCS 120, MATHS 166 (CoR) preferred or MATHS 162 (CoR)
	5		
PHYCS 260 Modern Physics	4		PHYCS 122
PHYCS 262 Modern Physics Lab	1		PHYCS 260
PHYCS 330 Mechanics	3		PHYCS 120
PHYCS 340 Physical Optics	3		PHYCS 122
PHYCS 354 Electronics 1	4		PHYCS 122
PHYCS 356 Electronics 2	4		PHYCS 354
PHYCS 369/479/482 or HONRS 499 Research)	3		Permission
PHYCS 434 Thermodynamics	3		PHYCS 330; MATHS 267
PHYCS 450 Electricity & Magnitism 1	3		PHYCS 122; MATHS 267
PHYCS 452 Electricity & Magnetism 2	3		PHYS 450
PHYCS 464 Introduction to Quantum Mechanics	3		PHYCS 260; MATHS 267
PHYCS 465 Quantum Mechanics	3		PHYCS 464
PHYCS 483 Seminar in Physics	1		None
PHYCS 485 Measures of Learning in Physics	1		PHYCS 260, PHYCS 330
ASTRO 330 Astronomy & Astrophysics 1	4		PHYCS 122
ASTRO 332 Astronomy and Astrophysics 2	4		ASTRO 330

CHEM 111	4	3	one year secondary school algebra or equivalent
CHEM 112 (UCC-21 Tier 2 - 3 hrs)	4	3	CHEM 111, MATHS 108
CS 120 Computer Science	4		MATHS 112 (or equivalent)
ITMFG 105 Technical Design Graphics	3		None

Education Course Requirements

SCI 150	3		a science course from a science licensure area (CoR)
SCI 295		3	Junior standing, at least 24 hours of science content courses
SCI 396	3		SCI 295; [EDSEC 380 & EDJHM 385 (CoR)]
EDPSY 251 Human Growth and Dev. for Sec. Ed.	3		None
EDMUL 205 Introduction to Multicultural Education	3		Sophomore standing
EDPSY 390 Educational Psychology	3		EDPSY 251
EDFON 420 Social, Historical and Phil. Foundations	3		Junior class standing
EDJHM 385 Principals of Teaching in Middle School	3		EDSEC 380 (CoR) and permission
EDSEC 380 Principles of Teaching in Secondary School	3		EDJHM 385 (CoR) and permission
EDSEC 460 (Student Teaching)	6		Admission of student to teaching
EDJHM 460 (Student Teaching)	6		Admission of student to teaching

B.S.- B. A. Physics Major (Option 1 - General Physics)

Student Name

FALL			SPRING		
<u>FRESHMAN</u>		<u>UCC</u>			<u>UCC</u>
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 115	1		PHYCS 122	5	
PHYCS 120 (UCC-21 3 hrs)	5	3	MATHS 166	4	
MATHS 165 (UCC-21 3 hrs)	4	3	UCC-21 (ENG 104 or ENG 114)	3	3
CS 120	4		UCC-21 (Found. Oral Comm.)	3	3
UCC-21 (ENG 103 if needed)	3	3	UCC-21 (Found. Personal Finance)	1	1
Semester Total			Semester Total		
	17	9		16	7
<u>SOPHOMORE</u>					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 260	4		PHYCS 262	1	
MATHS 267	4		PHYCS 330	3	
UCC-21 (Found. Physical Wellness)	2	2	UCC-21	3	3
UCC-21	3	3	UCC-21	3	3
Elective	3		Elective	3	
			Elective	3	
Semester Total			Semester Total		
	16	5		16	6
<u>JUNIOR</u>					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 340 or PHYCS 434	3		PHYCS Elective	3	
PHYCS 464	3		PHYCS 465	3	
PHYCS 483 (1 of 2)	1		UCC-21	3	3
UCC-21	3	3	UCC-21	3	3
Elective	3		Elective	3	
Elective	3				
Semester Total			Semester Total		
	16	3		15	6
<u>SENIOR</u>					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 340 or PHYCS 434	3		PHYCS Elective	3	
PHYCS 450	3		PHYCS 452	3	
PHYCS 485	1		PHYCS 369/479/482 or HONRS 499	3	
UCC-21	3		PHYCS 483 (2 of 2)	1	
Elective	4		UCC-21	3	
			Elective	3	
Semester Total			Semester Total		
	14	0		16	0
Four Year Program Total				126	36

Late starters & double majors.

Year Five					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
<i>Semester Total</i>		<i>0</i>	<i>0</i>	<i>Semester Total</i>	
Five Year Program Total				126	0

Physics Major (Option 1 - General Physics Required Courses

Course	Hrs.	
MATHS 165	4	A11
MATHS 166	4	D10
MATHS 267	4	A21
CS 120	4	A12
PHYCS 115	1	A9
PHYCS 120	5	A10
PHYCS 122	5	D9
PHYCS 260	4	A20
PHYCS 262	1	D20
PHYCS 330	3	D21
PHYCS 340	3	A33
PHYCS 434	3	A44
PHYCS 450	3	A45
PHYCS 452	3	D45
PHYCS 464	3	A34
PHYCS 465	3	D34
PHYCS 483 (1 of 2)	1	A35
PHYCS 483 (2 of 2)	1	D47
PHYCS 485	1	A46
PHYCS Elective	3	D33
PHYCS Elective	3	D44
PHYCS 369/479/482 or HONRS 499	3	D46
Required Courses 65 hours.	65	

University Core Curriculum	Hrs.	Cell	Cell
UCC-21 (ENG 103 if needed)	3	A13	WISER Plus "W" Course
UCC-21 (ENG 104 or ENG 114)	3	D11	WISER Plus "Other Elective"
UCC-21 (Found. Oral Comm.)	3	D12	
UCC-21 (Foundation Mathematics)	3	A11	
UCC-21 (Foundation History)	3		
UCC-21 (Found. Physical Wellness)	2	A22	
UCC-21 (Found. Personal Finance)	1	D13	
UCC-21 Fine Arts Tier 1	3		
UCC-21 Humanities Tier 1	3		
UCC-21 Natural Science Tier 1	3		
UCC-21 Social Science Tier 1	3		
UCC-21 Tier 2 (1 of 2)	3		
UCC-21 Tier 2 (2 of 2)	3		
UCC-21 (Class of 2010 and later)	36		

UCC (Prior to Class of 2010) 41

B.S.- B. A. Physics Major (Option 2 - Applied Physics)

Student Name

FALL			SPRING		
<u>FRESHMAN</u>		UCC			UCC
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 115	1		PHYCS 122	5	
PHYCS 120 (UCC-21 3 hrs)	5	3	MATHS 166	4	
MATHS 165 (UCC-21 3 hrs)	4	3	UCC-21 (ENG 104)	3	3
CS 120	4		UCC-21 (Found. Oral Comm.)	3	3
UCC-21 (ENG 103 if needed)	3	3	UCC-21 (Found. Personal Finance)	1	1
Semester Total		17	9	Semester Total	
<u>SOPHOMORE</u>					
Course	Hrs.		Course	Hrs.	
PHYCS 260	4		PHYCS 262	1	
ASTRO 330 or PHYCS 354	4		PHYCS 330	3	
MATHS 267	4		ASTRO 332 OR PHYCS 356	4	
UCC-21	3	3	UCC-21 (Found. Physical Wellness)	2	2
			UCC-21	3	3
			UCC-21	3	3
Semester Total		15	3	Semester Total	
<u>JUNIOR</u>					
Course	Hrs.		Course	Hrs.	
ASTRO 330 or PHYCS 354	4		ASTRO 332 OR PHYCS 356	4	
PHYCS 340 or PHYCS 434	3		UCC-21	3	3
PHYCS 464	3		UCC-21	3	3
PHYCS 483	1		Elective	3	
Elective	3		Elective	3	
Semester Total		14	0	Semester Total	
<u>SENIOR</u>					
Course	Hrs.		Course	Hrs.	
PHYCS 340 or PHYCS 434	3		PHYCS 369/479/482 or HONRS 499	3	
PHYCS 450	3		PHYCS 483	1	
PHYCS 485	1		Elective	3	
UCC-21	3	3	Elective	3	
Elective	3		Elective	3	
Elective	3		Elective	3	
Semester Total		16	3	Semester Total	
				Program Total	36

Late starters & double majors.

Year Five				
Course	Hrs.		Course	Hrs.
<i>Semester Total</i>	0	0	<i>Semester Total</i>	0 0
			Program Total	126 0

Physics Major (Option 2 - Applied Physics Required Courses

	Hrs	Cell
MATHS 165	4	A11
MATHS 166	4	D10
MATHS 267	4	A22
CS 120	4	A12
PHYCS 115	1	A9
PHYCS 120	5	A10
PHYCS 122	5	D9
PHYCS 260	4	A20
PHYCS 262	1	D20
PHYCS 330	3	D21
PHYCS 340	3	
PHYCS 434	3	
PHYCS 450	3	A45
PHYCS 464	3	A34
PHYCS 483 (1 of 2)	1	A36
PHYCS 483 (2 of 2)	1	D45
PHYCS 485	1	A46
PHYCS 354 (or approved substitute)	4	
PHYCS 356 (or approved substitute)	4	
ASTRO 330 (or approved substitute)	4	
ASTRO 332 (or approved substitute)	4	
PHYCS 369/479/482 or HONRS 499	3	D44
(67 Hrs required - 69 hrs as shown)	69	

University Core Curriculum	Hrs.	Cell	Cell
UCC-21 (ENG 103 if needed)	3	A13	WISER Plus "W" Course
UCC-21 (ENG 104)	3	D11	WISER Plus "Other Elective"
UCC-21 (Found. Oral Comm.)	3	D12	
UCC-21 (Foundation Mathematics)	3	A11	
UCC-21 (Foundation History)	3		
UCC-21 (Found. Physical Wellness)	2	D23	
UCC-21 (Found. Personal Finance)	1	D13	
UCC-21 Fine Arts Tier 1	3		
UCC-21 Humanities Tier 1	3		
UCC-21 Natural Science Tier 1	3		
UCC-21 Social Science Tier 1	3		
UCC-21 Tier 2 (1 of 2)	3		
UCC-21 Tier 2 (2 of 2)	3		
UCC-21 (Class of 2010 and later)	36		

Pre-Engineering Major

Student Name

FALL

SPRING

<u>FRESHMAN</u>		UCC				UCC	
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.		
CHEM 111	4		CHEM 112 (UCC-21 3 HRS)	4	3		
MATHS 165 (UCC-21 3 hrs)	4	3	MATHS 166	4			
PHYCS 120 (UCC-21 3 hrs)	5	3	PHYCS 122	5			
PHYCS 115	1		UCC-21 (ENG 104)	3	3		
UCC-21 (ENG 103 if needed)	3	3					
Semester Total		17	9	Semester Total		16	6
<u>SOPHOMORE</u>							
Course	Hrs.		Course	Hrs.			
CS 120	4		ITMFG 105	3			
PHYCS 260	4		MATHS 217	4			
MATHS 267	4		PHYCS 262	1			
UCC-21 (Found. Physical Wellness)	2	2	PHYCS 330	3			
UCC-21 (Found. Oral Comm.)	3	3	UCC-21	3	3		
			UCC-21	3	3		
Semester Total		17	5	Semester Total		17	6
<u>JUNIOR</u>							
Course	Hrs.		Course	Hrs.			
PHYCS 354	4		PHYCS 356	4			
PHYCS 485	1		PHYCS Elective	3			
PHYCS Elective	3		PHYCS 483	1			
PHYCS Elective	2		UCC-21	3	3		
UCC-21	3	3	UCC-21 (Found. Personal Finance)	1	1		
UCC-21	3	3	Elective	3			
Semester Total		16	6	Semester Total		15	4
<u>SENIOR</u>							
Course	Hrs.		Course	Hrs.			
Semester Total		0	0	Semester Total		0	0
				Program Total		98	36

Pre-Engineering (Option 1 - General)

	Hrs	Cell
PHYCS 115	1	A12
PHYCS 120 (UCC-21 3 hrs)	5	A11
PHYCS 122	5	D11
PHYCS 260	4	A21
PHYCS 262	1	D22
PHYCS 330	3	D23
PHYCS 354	4	A33
PHYCS 483	1	D35
PHYCS 485	1	A34
CHEM 111	4	A9
CHEM 112	4	D9
CS 120	4	A20
ITMFG 105	3	D20
MATHS 165 (UCC-21 3 hrs)	4	A10
MATHS 166	4	D10
MATHS 217	4	D21
MATHS 267	4	A22
PHYCS 356	4	D33
PHYCS Elective	3	A35
PHYCS Elective	3	D34
PHYCS Elective	2	A36
Option 1 Required Courses 68 hrs.	68	

University Core Curriculum	Hrs.	Cell	Cell
UCC-21 (ENG 103 if needed)	3	A13	WISER Plus "W" Course
UCC-21 (ENG 104)	3	D12	WISER Plus "Other Elective"
UCC-21 (Found. Oral Comm.)	3	A24	
UCC-21 (Foundation Mathematics)	3	A10	
UCC-21 (Foundation History)	3		
UCC-21 (Found. Physical Wellness)	2	A23	
UCC-21 (Found. Personal Finance)	1	D38	
UCC-21 Fine Arts Tier 1	3		
UCC-21 Humanities Tier 1	3		
UCC-21 Natural Science Tier 1	3		
UCC-21 Social Science Tier 1	3		
UCC-21 Tier 2 (1 of 2)	3	D9	
UCC-21 Tier 2 (2 of 2)	3		
UCC-21 (Class of 2010 and later)	36		

UCC (Prior to Class of 2010) 41

B.S.- B. A. Physics Teaching Major - High School

Student Name

FALL			SPRING		
<u>FRESHMAN</u>		<u>UCC</u>			<u>UCC</u>
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
CHEM 111	4		CHEM 112 (UCC-21 3 HRS)	4	3
MATHS 165 (UCC-21 3 HRS)	4	3	MATHS 166	4	
PHYCS 120 (UCC-21 3 HRS)	5	3	PHYCS 122	5	
SCI 150	3		UCC-21 (ENG 103 if needed)	3	3
<i>Semester Total</i>		16	6	<i>Semester Total</i> 16 6	
<u>SOPHOMORE</u>					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 260	4		PHYCS 262	1	
EDPSY 251	3		PHYCS 330	3	
EDMUL 205	3		SCI 295	3	
UCC-21 (ENG 104)	3	3	UCC-21 (Found. Oral Comm.)	3	3
Elective	4		UCC-21 (Found. Physical Wellness)	2	2
			UCC-21 (Found. Personal Finance)	1	1
			Elective	3	
<i>Semester Total</i>		17	3	<i>Semester Total</i> 16 6	
<u>JUNIOR</u>					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 354	4		RESEARCH (PHYCS 482)	2	
PHYCS 340 or 434	3		EDFON 420	3	
EDPSY 390	3		UCC-21	3	3
UCC-21	3	3	UCC-21	3	3
UCC-21	3	3	UCC-21	3	3
			Elective	3	
<i>Semester Total</i>		16	6	<i>Semester Total</i> 17 9	
<u>SENIOR</u>					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 340 or 434	3		EDSEC 460	6	
PHYCS 450	3		EDJHM 460	6	
RESEARCH (PHYCS 482)	1				
EDJHM 385	3				
EDSEC 380	3				
SCI 396	3				
<i>Semester Total</i>		16	0	<i>Semester Total</i> 12 0	
Four Year Program Total				126	36

Late starters & double majors.

Year Five					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
<i>Semester Total</i>		<i>0</i>	<i>0</i>	<i>Semester Total</i>	
Five Year Program Total				126	0

Physics Teaching Major High School

	Hrs	Cell	Education Course Requirements	Hrs	Cell
CHEM 111	4	A9	SCI 150	3	A12
CHEM 112	4	D9	SCI 295	3	D22
MATHS 165	4	A10	SCI 396	3	A49
MATHS 166	4	D10	EDPSY 251	3	A21
PHYCS 120	5	A11	EDMUL 205	3	A22
PHYCS 122	5	D11	EDPSY 390	3	A35
PHYCS 260	4	A20	EDFON 420	3	D34
PHYCS 262	1	D20	EDJHM 385	3	A47
PHYCS 369/479/482 or HONRS 499	3	D33	EDSEC 380	3	A48
PHYCS 330	3	D21	EDSEC 460 (Student Teaching)	6	D44
PHYCS 340	3		EDJHM 460 (Student Teaching)	6	D45
PHYCS 354	3	A33			
PHYCS 434	4				
PHYCS 450	3	A45			
(50 Hrs required.)	50		Total Education Courses 39 hrs.	39	

University Core Curriculum

	Hrs.	Cell		Cell
UCC-21 (ENG 103 if needed)	3	D12	WISER Plus "W" Course	
UCC-21 (ENG 104)	3	A23	WISER Plus "Other Elective"	
UCC-21 (Found. Oral Comm.)	3	D23		
UCC-21 (Foundation Mathematics)	3	A10		
UCC-21 (Foundation History)	3			
UCC-21 (Found. Physical Wellness)	2	D24		
UCC-21 (Found. Personal Finance)	1	D25		
UCC-21 Fine Arts Tier 1	3			
UCC-21 Humanities Tier 1	3			
UCC-21 Natural Science Tier 1	3			
UCC-21 Social Science Tier 1	3			
UCC-21 Tier 2 (1 of 2)	3	D9		
UCC-21 Tier 2 (2 of 2)	3			
UCC-21 (Class of 2010 and later)	36		UCC (Prior to Class of 2010)	41

B.S.- B. A. Physical Science Teaching Major - (Physics Option)

Student Name

FALL			SPRING		
<u>FRESHMAN</u>		UCC			UCC
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
CHEM 111	4		CHEM 112	4	3
MATHS 165 (UCC-21 3 HRS)	4	3	MATHS 166	4	
PHYCS 120 (UCC-21 3 HRS)	5	3	PHYCS 122	5	
SCI 150	3		UCC-21 (ENG 103 if needed)	3	3
Semester Total		16	6	Semester Total	
16		6	16		6
<u>SOPHOMORE</u>					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 260	4		PHYCS 262	1	
CHEM 231	4		PHYCS 330	3	
EDPSY 251	3		CHEM 225	3	
EDMUL 205	3		SCI 295	3	
UCC-21 (ENG 104)	3	3	UCC-21 (Found. Oral Comm.)	3	3
			UCC-21 (Found. Physical Wellness)	2	2
			UCC-21 (Found. Personal Finance)	1	1
Semester Total		17	3	Semester Total	
17		3	16		6
<u>JUNIOR</u>					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 354	4		RESEARCH (PHYCS 482)	2	
PHYCS 340 or 434	3		EDFON 420	3	
EDPSY 390	3		UCC-21	3	3
UCC-21	3	3	UCC-21	3	3
UCC-21	3	3	UCC-21	3	3
			Elective		
Semester Total		16	6	Semester Total	
16		6	14		9
<u>SENIOR</u>					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
PHYCS 340 or 434	3		EDSEC 460	6	
PHYCS 450	3		EDJHM 460	6	
RESEARCH (PHYCS 482)	1				
EDJHM 385	3				
EDSEC 380	3				
SCI 396	3				
Semester Total		16	0	Semester Total	
16		0	12		0
			Four Year Program Total	123	36

Late starters & double majors.

Year Five					
Course	Hrs.	Hrs.	Course	Hrs.	Hrs.
<i>Semester Total</i>	0	0	<i>Semester Total</i>	0	0
			Five Year Program Total	123	36

B.S.- B. A. Physical Science Teaching Major - (Physics Option)

	Hrs	Cell	Education Course Requirements	Hrs	Cell
CHEM 111	4	A9	SCI 150	3	A12
CHEM 112	4	D9	SCI 295	3	D22
CHEM 225	3	D22	SCI 396	3	A49
CHEM 231	4	A21	EDPSY 251	3	A21
MATHS 165	4	A10	EDMUL 205	3	A22
MATHS 166	4	D10	EDPSY 390	3	A35
PHYCS 120	5	A11	EDFON 420	3	D34
PHYCS 122	5	D11	EDJHM 385	3	A47
PHYCS 260	4	A20	EDSEC 380	3	A48
PHYCS 262	1	D20	EDSEC 460 (Student Teaching)	6	D44
PHYCS 369/479/482 or HONRS 499	3	D33	EDJHM 460 (Student Teaching)	6	D45
PHYCS 330	3	D21			
PHYCS 340	3				
PHYCS 354	3	A33			
PHYCS 434	4				
PHYCS 450	3	A45			
(50 Hrs required.)	57		Total Education Courses 39 hrs.	39	

University Core Curriculum

	Hrs.	Cell		Cell
UCC-21 (ENG 103 if needed)	3	D12	WISER Plus "W" Course	
UCC-21 (ENG 104)	3	A23	WISER Plus "Other Elective"	
UCC-21 (Found. Oral Comm.)	3	D23		
UCC-21 (Foundation Mathematics)	3	A10		
UCC-21 (Foundation History)	3			
UCC-21 (Found. Physical Wellness)	2	D24		
UCC-21 (Found. Personal Finance)	1	D25		
UCC-21 Fine Arts Tier 1	3			
UCC-21 Humanities Tier 1	3			
UCC-21 Natural Science Tier 1	3			
UCC-21 Social Science Tier 1	3			
UCC-21 Tier 2 (1 of 2)	3	D9		
UCC-21 Tier 2 (2 of 2)	3			
UCC-21 (Class of 2010 and later)	36		UCC (Prior to Class of 2010)	41