

THE NAVIGATOR
B.S. in BIOLOGY/ MOLECULAR
2006-2007

The Navigator will help you develop a 4-year academic plan, enabling you to stay on course with your degree program. The recommended sequence of courses below can be modified to meet your personal needs. Please refer to the catalog for prerequisite information if the sequence is modified, and for possible limitations on elective credits. **It is important to meet with an advisor when planning your schedule each semester, and it is equally important that you review your Cougar Trail ONCOURSE degree audit before and after registering each semester to verify that you are "On Course". Students are reminded that they are ultimately responsible for their own academic program and course load. An advisor can only advise and can never replace individual student responsibility.**

**Please note detailed Course Requirements are on the next page.

Freshman Year

Fall			Spring		
		Credits			Credits
_____	ENGL 101	3	_____	ENGL 102	3
_____	MATH 120	4	_____	MATH 103-545	3
_____	Foreign Language 101	3	_____	Foreign Language 102	3
_____	BIOL 111 w/lab	4	_____	BIOL 112 w/lab	4
_____	CHEM 111 w/lab	4	_____	CHEM 112 w/lab	4
18 credits			17 credits		

Sophomore Year

Fall			Spring		
		Credits			Credits
_____	HIST 101 or 103	3	_____	HIST 102 or 104	3
_____	BIOL 211 w/lab	4	_____	BIOL 212 w/lab	4
_____	CHEM 231 w/lab	4	_____	CHEM 232 w/lab	4
_____	Foreign Language 201	3	_____	Foreign Language 202	3
_____	Humanities*	3	_____	Humanities*	3
17 credits			17 credits		

Junior Year

Fall			Spring		
		Credits			Credits
_____	BIOL 312	4	_____	BIOL 313	4
_____	PHYS 101 or 201 w/lab	4	_____	PHYS 102 or 202 w/lab	4
_____	Social Science	3	_____	Social Science	3
_____	Humanities*	3	_____	CHEM 352	3
_____	CHEM 351	3	_____	Humanities*	3
_____	CHEM 354L	1			
18 credits			17 credits		

Senior Year

Fall			Spring		
		Credits			Credits
_____	BIOL Elective 300 or above	4	_____	BIOL 455	2
_____	BIOL Elective 300 or above	4	_____	General Elective or Minor	3
_____	General Elective or Minor	3	_____	General Elective or Minor	3
_____	General Elective or Minor	3	_____	General Elective or Minor	3
_____	General Elective or Minor	3	_____	General Elective or Minor	3
17 credits			14 credits		

*See Humanities list and catalog for restrictions

Minimum Hours Required for Degree Completion =122

**BIOLOGY/MOLECULAR (BS)
DEGREE REQUIREMENTS
2006-2007**

General Education Requirements

Major Requirements

	Course	Semester Hours		Course	Semester Hours
English	101	3		Biology Core Courses	
	102	3		Introduction to Cell & Molecular Biology w/lab	BIOL 111 4
History	101 & 102 or 103 & 104 (Two course sequence)	6		Evolution, Form & Function of Organisms w/lab	BIOL 112 4
Natural Sciences	BIOL 111 & BIOL 112	8		Biodiversity, Ecology, & Conservation Biology w/Discussion	BIOL 211 4
Mathematics	120 & 103- 545	7		Genetics w/lab	BIOL 212 4
Foreign Language	101-202	0-12 ¹		Biology Electives²	<u>18</u>
Social Sciences		6		18 Hours at the 300 level or above, including:	
Humanities	(See ONCOURSE for detailed list and limitations)	12		Molecular Biology w/lab	BIOL 312
				Cell Biology w/lab	BIOL 313
				Seminar in Molecular Biology	BIOL 455
				One Year of Physics	
Total		44-56¹		Total	35
Summary: These totals may vary: General Education Courses 44-56¹ Major Courses 35 General Electives 8-20¹ Additional Required Courses 23 TOTAL DEGREE HOURS: 122			Additional Required Courses Principles of Chemistry w/lab CHEM 111 4 Principles of Chemistry w/lab CHEM 112 4 Organic Chemistry w/lab CHEM 231 4 Organic Chemistry w/lab CHEM 232 4 Biochemistry I CHEM 351 3 Biochemistry II CHEM 352 3 Biochemistry Lab CHEM 354L 1		

NOTE:

- * **PLEASE REFER TO THE CATALOG FOR COURSE PREREQUISITES.**
- * **STUDENTS WHO ARE CONSIDERING MAJORING IN BIOLOGY SHOULD VISIT THE DEPT. OF BIOLOGY EARLY IN THEIR COLLEGE CAREERS TO CONSULT WITH ADVISORS AND TO OBTAIN INFORMATION NECESSARY TO PLAN THEIR PROGRAMS OF STUDIES.**
- * **CHEM 221 IS RECOMMENDED BUT NOT REQUIRED.**
- * **STUDENTS MUST COMPLETE AT LEAST FOUR BIOLOGY COURSES WITH LABS AT THE 300 LEVEL OR ABOVE. THE LAB COURSES MAY CARRY SEPARATE CREDIT OR MAY BE PART OF A FOUR-CREDIT COURSE.**
- * **INDEPENDENT STUDY (HONS 398), TUTORIAL (BIOL/HONS 399), BACHELOR'S ESSAY (BIOL/HONS 499) OR PROBLEMS COURSES (BIOL 450, 451) WITH LABS DO NOT FULFILL THE LAB REQUIREMENT.**
- * **AT LEAST 15 HOURS OF COURSES ABOVE THE 200 LEVEL MUST BE TAKEN IN RESIDENCE.**
- * **PLEASE REFER TO THE BIOLOGY DEPARTMENTAL WEBSITE AT <http://www.cofc.edu/~biology/> FOR DETAILED INFORMATION.**

¹ Required credits may vary based on course selection and placement.

² See catalog and major advisor for specific course selections.