

**THE NAVIGATOR**  
**B.S. in DISCOVERY INFORMATICS**  
**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 220	4
_____	Foreign Language 101	3	_____	Foreign Language 102	3
_____	Science Sequence w/lab	4	_____	Science Sequence w/lab	4
_____	FRSR 101 Freshman Seminar or General Elective	2 or 3	_____	DSCI 101	3
		16-17 credits			17 credits

**Sophomore Year**

Fall			Spring		
	Credits			Credits	
_____	HIST 101 or 103	3	_____	HIST 102 or 104	3
_____	DSCI 210	3	_____	MATH 203	3
_____	MATH 207	3	_____	Social Science	3
_____	Foreign Language 201	3	_____	Foreign Language 202	3
_____	CSCI 220	3	_____	CSCI 221	3
_____	CSCI 222	1	_____	Cognate Area Course	3
		16 credits			18 credits

**Junior Year**

Fall			Spring		
	Credits			Credits	
_____	CSCI 230	3	_____	CSCI 310	3
_____	MATH 250	3	_____	MATH 350	3
_____	Cognate Area Course	3	_____	CSCI 334	3
_____	Social Science	3	_____	General Elective or Minor	3
_____	Humanities*	3	_____	Humanities*	3
		15 credits			15 credits

**Senior Year**

Fall			Spring		
	Credits			Credits	
_____	CSCI 470	3	_____	DSCI 495	3
_____	MATH 440	3	_____	MATH 441	3
_____	Cognate Area Course	3	_____	Cognate Area Course	3
_____	Cognate Area Course	3	_____	General Elective or Minor	3
_____	Humanities*	3	_____	General Elective or Minor	3
		15 credits			15 credits

\*See Humanities list and catalog for restrictions

**Minimum Hours Required for Degree Completion =122**

**DISCOVERY INFORMATICS (BS)  
DEGREE REQUIREMENTS  
2006-2007**

**General Education Requirements**

**Major Requirements**

	Course	Semester Hours		Course	Semester Hours
English	101	3		<b>Discovery Informatics Requirements</b>	
	102	3		Intro to Discovery Informatics	DISC 101 3
History	101 & 102 or 103 & 104 (Two course sequence)	6		Dataset Organization & Mgmt	DISC 210 3
Natural Sciences		8		Discovery Informatics Capstone	DISC 495 3
	<b>Science Requirement may vary based on cognate area</b>			<b>Computer Science Requirements</b>	
Mathematics	(To be fulfilled with major requirements)	(6)		Computer Programming I	CSCI 220 3
Foreign Language	101-202	0-12 <sup>1</sup>		Computer Programming I Lab	CSCI 222 1
Social Sciences		6		Computer Programming II	CSCI 221 3
Humanities	(See ONCOURSE for detailed list and limitations)	12		Data Structures & Algorithms	CSCI 230 3
				Advanced Algorithms	CSCI 310 3
<b>Total</b>		<b>44-56<sup>1</sup></b>		Data Mining	CSCI 334 3
				Principles of Artificial Intelligence	CSCI 470 3
				<b>Mathematics Requirements</b>	
				Calculus I	MATH 120 4
				Linear Algebra	MATH 203 3
				Discrete Structures I	MATH 207 3
				Calculus II	MATH 220 4
				Statistical Methods I	MATH 250 3
				Statistical Methods II	MATH 350 3
				Statistical Learning I	MATH 440 3
				Statistical Learning II	MATH 441 3
				<b>Total</b>	54
				<b>Cognate Requirement (See Notes)</b>	15-22

**Summary:**  
 These totals may vary:  
     General Education Courses           **44-56<sup>1</sup>**  
     Major Courses                           **54**  
     General Electives                      **0-9<sup>1</sup>**  
     Additional Required Cognate Courses   **15-22**  
**TOTAL DEGREE HOURS:                      122**

**NOTE:**

- \* **PLEASE REFER TO THE CATALOG FOR COURSE PREREQUISITES.**
- \* **EACH STUDENT SELECTS ONE COGNATE TO COMPLETE FOR THE MAJOR. STUDENTS SHOULD CONTACT THE PROGRAM DIRECTOR FOR ADDITIONAL INFORMATION.**
- \* **CSCI 470 REQUIRES CSCI 320 & MATH 307 AS PREREQUISITES.**
- \* **PLEASE REFER TO THE COMPUTER SCIENCE DEPARTMENTAL WEBSITE AT <http://discovery.cofc.edu/index.html> FOR DETAILED INFORMATION AND INFORMATION REGARDING SPECIFIC COGNATE REQUIREMENTS..**

<sup>1</sup> Required credits may vary based on course selection and placement.

<sup>2</sup> See catalog and major advisor for specific course selections.