122

Bachelor of Science (BS)
Degree Code 260*
Concentration Code 2608

Concentration Code 260E		COMPUTATION	
Studer	nt Name:	Date	
. GE	NERAL EDUCATION CURRICULUM	44	
Mo	ath 1110 will meet the Quantitative Literacy general educat	ion requirement.	
I. MA	AJOR REQUIREMENTS (not including 4 s.h. counted in Area I, ab	ove)61	
		Il include <u>all</u> courses taken in the major department, plus any other of fulfill major requirements must be courses offered by Appalachian.	
4. Ma	athematics Common Core (14-15 hours)		
	AT 1110 (4) Calculus with Analytic Geomet		
	AT 1120 (4) Calculus with Analytic Geomet	•	
MA	AT 2240 (3) Introduction to Linear Algebra	(Pre: MAT 1120)	
<u>Ch</u>	oose one:		
MA	AT 2110 (3) Techniques of Proof (Pre: MAT 11	20)	
MA	AT 2510 (4) Sophomore Honors Seminar (Pi	e: MAT 1120)	
3. Ma	Mathematics Courses for the Concentration (27-28 hours)		
	MAT 2310 (3) Computational Mathematics (Pre: MAT 1120)		
MA	MAT 4310 (3) Numerical Methods (<i>Pre: MAT 2310</i>)		
ST	STT 3850 (4) Statistical Data Analysis I (Pre: MAT 1110)		
<u>Ch</u>	Choose one:		
M	MAT 3110 (3) Introduction to Modern Algebra [WID] (Pre: RC 2001, MAT 2110 or 2510; Co: 2240)		
MA	MAT 3220 (3) Intro to Real Analysis I [WID] (Pre: RC 2001, MAT 2110 or 2510)		
<u>Ch</u>	oose one:		
MA	AT 4040 (1) Mathematics Capstone [CAP] (1)		
MA	AT 4510 (3) Senior Honors Thesis [CAP] (Pre	: MAT 3510; 3.45+ GPA in math)	
	-14 hours of approved electives** in mathematical sciences the 4000 level)	to bring total number of hours in AREA II to 65 (at least 3 hours	
C. A(Computational Concentration (14 hours)		
C.S	C S 1440 (4) Computer Science I (<i>Pre: MAT 1020 or 1025 w/min grade C-</i>)		
	C S 2440 (4) Computer Science II (Pre: CS 1440 or 1445 w/min grade C; Co: CS 1100)		
	3430 (3) Database (Pre: CS 2440 with min gro		
	C S 3460 (3) Data Structures (Pre: CS 2440 with min grade of C)		
D. Ele	ectives: 9 hours** of Approved courses in the sciences, which may include computer science		
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** Must	t be approved by mathematical sciences advisor.		
II. MI	NOR (optional)	Student Signature:	
1911	iton (optional)	Advisor Signature:	
		Chairperson Signature: Date: Date Sent to Dean's Office:	

2 semester hours of free electives must be outside the major discipline.