

Advisor: _____

Name: _____

Date admitted into Major: _____

Transfer credits: _____

**BACHELOR OF ARTS
MATHEMATICS**

GENERAL EDUCATION CORE REQUIREMENTS

Competencies

- Basic College Math
- Reading Comprehension
- Computer Literacy

ENG	101	Composition I	3	_____
ENG	102	Composition II	3	_____
SPC	101	(Public Speaking)	3	_____
SMS	_____	(Health)	3	_____
SMS	_____	(Activity)	.5	_____
SMS	_____	(Activity)	.5	_____

Distribution Sequences (18-20 credits)

_____	_____	(Lab Science I)	3-4	_____
_____	_____	(Lab Science II)	3-4	_____
HIS	101	World History I	3	_____
HIS	102	World History II	3	_____
_____	_____	(Literature I)	3	_____
_____	_____	(Literature II)	3	_____

Distribution Electives (15 credits)

Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions.

Humanities (Division I)

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Science/Mathematics (Division II)

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Social Sciences (Division III)

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

(Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)

QUANTITATIVE (Q) _____ **DIVERSITY (V)** _____ **WRITING (W)** _____

COURSES IN MAJOR (37 credits total)

MAT	220	Calculus I	4	_____
MAT	218	Introduction to Mathematical Computing	1	_____
MAT	221	Calculus II	4	_____
MAT	234	Introduction to Mathematical Proof	3	_____
MAT	303A	Abstract Algebra I	3	_____
MAT	304A	Linear Algebra	3	_____
MAT	320	Calculus III	4	_____
MAT	411	Real Analysis	3	_____
MAT	490	Senior Seminar in Mathematics	3	_____

Sequence Requirement (3 credits minimum)

(One of the following sequences is required)

- Algebra sequence MAT 303A, MAT 404
- Analysis sequence MAT 411, MAT 409
- Discrete Mathematics sequence MAT 314, MAT 316
- Geometry sequence MAT 406, MAT 415
- Probability & Statistics sequence MAT 407, MAT 417

Note: A course may count as both a major core course and as part of a sequence.

Major Electives (6 credits minimum)

(Two courses numbered between 300 and 501)

MAT	_____	_____	3	_____
MAT	_____	_____	3	_____

MINOR: _____ (15-18 credits total)

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

FOREIGN LANGUAGE (0-12 credits total)

_____	_____	_____	3	_____
_____	_____	_____	3	_____
_____	_____	_____	3	_____
_____	_____	_____	3	_____

FREE ELECTIVES (10 credits minimum)

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

Total minimum credits for graduation: 120

Effective: 9/09

Salem State College

Advisor: _____

Name: _____

Date admitted into Major: _____

Transfer credits: _____

**BACHELOR OF SCIENCE
MATHEMATICS
COMPUTER SCIENCE CONCENTRATION**

GENERAL EDUCATION CORE REQUIREMENTS

Competencies			
<input type="checkbox"/>	Basic College Math		
<input type="checkbox"/>	Reading Comprehension		
<input type="checkbox"/>	Computer Literacy		
ENG	101	Composition I	3 _____
ENG	102	Composition II	3 _____
SPC	101	(Public Speaking)	3 _____
SMS	_____	(Health)	3 _____
SMS	_____	(Activity)	.5 _____
SMS	_____	(Activity)	.5 _____
Distribution Sequences (18-20 credits)			
_____	_____	(Lab Science I)	3-4 _____
_____	_____	(Lab Science II)	3-4 _____
HIS	101	World History I	3 _____
HIS	102	World History II	3 _____
_____	_____	(Literature I)	3 _____
_____	_____	(Literature II)	3 _____
Distribution Electives (15 credits)			
Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions.			
Humanities (Division I)			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Science/Mathematics (Division II)			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Social Sciences (Division III)			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
(Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)			
QUANTITATIVE (Q)	_____	DIVERSITY (V)	_____
		WRITING (W)	_____

COURSES IN MAJOR (37 credits total)

MAT	220	Calculus I	4	_____
MAT	218	Introduction to Mathematical Computing	1	_____
MAT	221	Calculus II	4	_____
MAT	234	Introduction to Mathematical Proof	3	_____
MAT	303A	Abstract Algebra I	3	_____
MAT	304A	Linear Algebra	3	_____
MAT	320	Calculus III	4	_____
MAT	411	Real Analysis	3	_____
MAT	490	Senior Seminar in Mathematics	3	_____

Sequence Requirement (6 credits)

MAT	314	Discrete Mathematics sequence	3	_____
MAT	316	Combinational Mathematics	3	_____

Major Elective (3 credits minimum)

(One course numbered between 300 and 501)

MAT	_____	_____	3	_____
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MINOR IN COMPUTER STUDIES (19 credits total)

CSC	200A	Survey of Computer Science I	3	_____
CSC	201J	Software Design and Programming I	4	_____
CSC	202J	Software Design and Programming II	4	_____
CSC	260	Data Structures and Algorithms	4	_____
CSC	245A	Computer Applications in Science & Math	4	_____

FREE ELECTIVES (16 credits minimum)

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

Total minimum credits for graduation: 120

Effective: 9/09

Salem State College

Advisor: _____

Name: _____

Date admitted into Major: _____

Transfer credits: _____

**BACHELOR OF SCIENCE
MATHEMATICS
SECONDARY EDUCATION MINOR**

GENERAL EDUCATION CORE REQUIREMENTS

Competencies			
<input type="checkbox"/>	Basic College Math		
<input type="checkbox"/>	Reading Comprehension		
<input type="checkbox"/>	Computer Literacy		
ENG	101	Composition I	3 _____
ENG	102	Composition II	3 _____
SPC	101	(Public Speaking)	3 _____
SMS	_____	(Health)	3 _____
SMS	_____	(Activity)	.5 _____
SMS	_____	(Activity)	.5 _____
Distribution Sequences (18-20 credits)			
_____	_____	(Lab Science I)	3-4 _____
_____	_____	(Lab Science II)	3-4 _____
HIS	101	World History I	3 _____
HIS	102	World History II	3 _____
_____	_____	(Literature I)	3 _____
_____	_____	(Literature II)	3 _____
Distribution Electives (15 credits)			
Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions.			
Humanities (Division I)			
_____	_____	_____	_____
Science/Mathematics (Division II)			
_____	_____	_____	_____
Social Sciences (Division III)			
*/+	HIS	_____	Constitutional Basis of Government 3 _____
*	PSY	101	General Psychology 3 _____
*	PSY	252	Adolescent Psychology 3 _____
(Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)			
QUANTITATIVE (Q)_____ DIVERSITY (V)_____ WRITING (W)_____			

COURSES IN MAJOR (37 credits total)

MAT	220	Calculus I	4	_____
MAT	218	Introduction to Mathematical Computing	1	_____
MAT	221	Calculus II	4	_____
MAT	234	Introduction to Mathematical Proof	3	_____
MAT	303A	Abstract Algebra I	3	_____
MAT	304A	Linear Algebra	3	_____
MAT	320	Calculus III	4	_____
MAT	406	Modern Geometry	3	_____
MAT	407	Probability and Mathematical Statistics I	3	_____
MAT	411	Real Analysis	3	_____
MAT	490	Senior Seminar in Mathematics	3	_____

Sequence Requirement (3 credits minimum)

(One of the following sequences is required)

- Algebra sequence MAT 303A, MAT 404
- Analysis sequence MAT 411, MAT 409
- Discrete Mathematics sequence MAT 314, MAT 316
- Geometry sequence MAT 406, MAT 415
- Probability & Statistics sequence MAT 407, MAT 417

Note: A course may count as both a major core course and as part of a sequence.

MINOR IN SECONDARY EDUCATION (27 credits total)

EDU	252A	The Contemporary High School	3	_____
EDU	254A	Teaching the Adolescent (Pre-practicum)	3	_____
EDU	256A	Resp to Diversity in Contemp Second Schls	3	_____
EDU	260A	Rdg and Wrtg Strategies in Second Ed	3	_____
EDU	337	Second Sch Curric Mat. & Meth in Second Ed	3	_____
EDU	495	Pract in Student Teach in Second Ed (9-12)	12	_____

+ FREE ELECTIVES (8 credits minimum)

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

* These are **required** support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

+ HIS 204 or HIS 208

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

Total minimum credits for graduation: 120

Effective:9/08