

BACHELOR OF ARTS, EDUCATION- Elementary Education Specialization: Math and Science

GENERAL EDUCATION REQUIREMENTS

62 S.H.

(Parentheses indicate prerequisites)

CHECK TO BE SURE THE FOLLOWING REQUIREMENTS ARE COMPLETED:				
<input type="checkbox"/> Writing Intensive Course (WI) <input type="checkbox"/> Multicultural/Global Course (M/G) <input type="checkbox"/> Lab Science Course (LAB)		<input type="checkbox"/> English Literature Course (LIT) <input type="checkbox"/> Computer Competency Exam or Computer Literacy Course <input type="checkbox"/> Rowan Seminar (RS) – Freshmen Only		
Transfer	Rowan	Rowan #	COMMUNICATIONS BANK	9-10 S.H.
		COMP 01111 COMP 01105	College Composition I (3 s.h.) or Integrated College Composition I (4 s.h.)	3-4 s.h.
		COMP 01112	College Composition II (<i>College Composition I</i>)	3 s.h.
		CMS 06202	Public Speaking (<i>College Composition II</i>)	3 s.h.
Transfer	Rowan	Rowan #	SCIENCE/MATHEMATICS BANK	11 S.H.
		MATH 01201	Structures of Mathematics*	3 s.h.
		PHYS 02150	Physics of Everyday Life*	4 s.h.
		CHEM 05102	Chemistry of Everyday Life*	4 s.h.
Transfer	Rowan	Rowan #	SOCIAL & BEHAVIORAL SCIENCES BANK	12 S.H.
		FNDS 21230	Characteristics of Knowledge Acquisition	3 s.h.
		SPED 08130	Human Exceptionalities	3 s.h.
		GEOG 06201	Geog. of U.S and Canada	3 s.h.
		PSY 09209	Child Development	3 s.h.
Transfer	Rowan	Rowan #	HISTORY/HUMANITIES/LANGUAGE BANK	12 S.H.
			English Literature (LIT)	3 s.h.
		READ 30120	Literacies in Today's World	3 s.h.
		PHIL 09369	Philosophy of Science (WI)*	3 s.h.
		PHIL 09110	Logic of Everyday Reasoning*	3 s.h.
Transfer	Rowan	Rowan #	ARTISTIC & CREATIVE EXPERIENCE BANK	3 S.H.
			ACE Elective	3 s.h.
Transfer	Rowan	Rowan #	NON-PROGRAM COURSES	15 S.H.
		SOC 08336	Soc. Of Education	3 s.h.
		PHED 35103	Health and Wellness	3 s.h.
		HIST 05150 HIST 05151	U.S. History to 1865 or U.S. History Since 1865	3 s.h.
		FNDS 21150	History of American Education	3 s.h.
		STAT 02260	Statistics I*	3 s.h.

*Advisement on above bolded courses given by Mathematics/Science Advisor.

- ◆ This information has been provided by the department listed above as of the date listed below and is subject to change.
- ◆ A suggested sequence of courses is also attached.
- ◆ To apply for the Elementary Education Major/Program, please go to the Student Services Center, 2nd Floor, Education Hall.

***Candidates must complete both a Biological and Physical Science course for certification purposes.**

ELEMENTARY EDUCATION - MATHEMATICS/SCIENCE SPECIALIZATION MAJOR

***DUAL MAJOR REQUIRED COURSES -- 33-34 SH**

	LOWER LEVEL COURSES (100 AND 200 LEVEL)	
	ASTR 17110 Principles of Earth Science	3
	BIOL 01105 Essentials of Biology	4
	MATH 03150 Discrete Mathematics	3
	CS 01200 Computing Environments	3
	ASTR 11221 Solar System	3
	UPPER LEVEL COURSES (300 AND 400 LEVEL)	
	CHEM 05301 Chemistry of the Environment	3
	BIOL 20401 Principles of Ecology	4
	MATH 03305 Patterns in Nature I: Visual Geometry	3
	MATH 03315 Patterns in Nature II: Projects in Calculus	4
	INTR 02492 Senior Seminar (WI)	3

SEE PROGRAM GUIDE – BA IN LIBERAL STUDIES/MATH-SCIENCE SPECIALIATION FOR PREREQUISITES

***Advisement on above courses given by Mathematics/Science Advisor**

	ELEMENTARY EDUCATION COURSES – 3.0 GPA REQUIRED	34
	EDUC 01104 Teaching: Introduction to the Profession	3
	EDUC 01270 Teaching in Learning Communities I*	2
	EDUC 01272 Teaching in Learning Communities II*	2
	SMED 33420 Educational Technology*	1
	READ 30280 Teaching Literacy* (prerequisite: Literacies in Today’s World-READ 30120)	3
	ELEM 02319 Curriculum and Assessment in the Elementary Classroom*	4
	SPED 08316 Differentiated Instruction in the Inclusive Classroom*	2
	ELEM 02336 Mathematics Pedagogy for Elementary Teachers*	2
	ELEM 02338 Practicum in Mathematics and Literacy*	1
	READ 30351 Differentiated Literacy Instruction*	2
	ELEM 02448 Clinical Practice in Elementary Education*	10
	ELEM 02445 Clinical Practice Seminar in Elementary Education*	1
	SECD 03350 Teaching Students of Linguistic and Cultural Diversity*	1

***Student must be accepted into the Elementary Education Specialization to register for these courses**

GENERAL EDUCATION CREDITS.....	62 SH
DUAL MAJOR CREDITS.....	33 SH
PROFESSIONAL EDUCATION CREDITS.....	34 SH
TOTAL CREDITS REQUIRED.....	129 SH

ROWAN UNIVERSITY
Requirements for entering
Elementary Education

Elementary Education & Early Childhood Education:

- 1) College proficiency in reading, writing, and computational skills. These proficiencies are met either by satisfactory scores for admission to Rowan University OR successful completion of appropriate basic skills courses. Obtain a letter of proficiency from the Academic Success Center in Savitz Hall. The letter must be attached to the application.
- 2) Attainment of passing scores on PRAXIS I Pre-Professional Skills Test. Scores must be attached to application (Writing 173, Reading 175, Mathematics 174).
- 3) Successful completion of a minimum of 12 semester hours/credits at Rowan University.
- 4) A 2.5 minimum overall GPA is required. GPA's from Rowan and all other colleges attended will be combined and rank ordered.
- 5) Completion of restricted major application form, available in the Student Services Center, 2nd floor, Education Hall.
- 6) Hand-written letter stating the reasons for changing your major to Elementary Education.
- 7) Transcripts from all higher education institutions attended must be attached to the restricted major application form before it is submitted for processing. (See Registrar's Office for assistance).

Application deadlines for this major are **September 15** and **February 15**. Notification dates for acceptance are **October 1** and **March 1**. Students may apply during the semester in which they are completing the requirements. Failure to successfully complete the requirements will result in removal from the major. Completion of the restricted major application and meeting all entrance requirements DOES NOT GUARANTEE admission into the elementary education program. You may stop by the Student Services Center in Education Hall if you have questions about the program or process. The Elementary Education advisor will not be available to advise you until you are formally accepted into the department.

Sample Course Sequence for Elementary Ed with Liberal Studies: Math/Science Dual Major

<u>First Semester</u>		<u>Second Semester</u>		FRESHMEN
Teaching: An Intro to the Prof EDUC 01104	3	Characteristics of Knowledge Acq FNDS 21230	3	
Chemistry of Everyday Life CHEM 05102	4	Physics of Everyday Life PHYS 02150	4	
College Comp I COMP 01111	3	College Comp II COMP 01112	3	
Logic of Everyday Reasoning PHIL 09110	3	Principles of Earth Science ASTR 17110	3	
US History to 1865 HIST 05150 or Since 1865 HIST 05151	3	Literacies in Today's World READ 30120	3	
	16		16	32
<u>Third Semester</u>		<u>Fourth Semester</u>		SOPHOMORE
Teaching in Learn. Communities I EDUC 01270	2	Teaching in Learn. Communities II EDUC 01272	2	
Human Exceptionality SPED 08130	3	Educational Technology SMED 33420	1	
Structures of Mathematics MATH 01201	3	Teaching Literacy READ 30280	3	
Computing Environments CS 01200	3	Essentials of Bio BIOL 01105	4	
Public Speaking CMS 06202	3	Statistics I (Prerequisite required)* STAT 02261	3	
Solar System ASTR 11221	3	Child Development PSY 09209	3	
	17-18	*(See Math/Science Advisor)	16	
<u>Fifth Semester</u>		<u>Sixth Semester</u>		JUNIOR
Curriculum and Assessment in the Elementary Classroom	4	Math Pedagogy for Elem Teachers ELEM 02336	2	
Differentiated Instruction in the Inclusive Classroom SPED 08316	2	Practicum in Math & Literacy ELEM 02338	1	
Health and Wellness PHED 35103	3	Differentiated Literacy Instruction READ 30351	2	
Philosophy of Science-WI PHIL 09369	3	Patterns in Nature II INTR 02315 (MATH 03315 as of Spring 2007)	4	
Patterns in Nature I MATH 03305	3	Chem of the Environment CHEM 05301	3	
Discrete Math MATH 03150	3	Artistic/Creative Experience Elective	3	
	18	History of American Ed FNDS 21150	3	
<u>Seventh Semester</u>		<u>Eighth Semester</u>		SENIOR
Math/Science Senior Seminar (WI) MATH 01499	3	Clinical Practice in Elem Ed ELEM 02448	10	
Principles of Ecology BIOL 20401	4	Clinical Practice Seminar in Elem Ed ELEM 02445	1	
Geography of U.S. and Canada GEOG 06201	3	Teaching Students of Linguistic & Cultural Diversity SECD 03350	1	
English Literature Elective (M/G)	3			
Sociology of Education SOC 08336	3			
	16		12	28
				129

COURSES MAY BE TAKEN DURING THE SUMMER TO LIGHTEN THE COURSE LOAD DURING ANY SEMESTER NOTING 17 SH OR MORE. IF YOU CHOOSE TO DO THIS, COURSES MUST BE TAKEN AT LEAST A SUMMER BEFORE THE SEMESTER IN WHICH THEY ARE LISTED AND MUST BE APPROVED BY BOTH ADVISORS. REMINDER: SUCCESSFUL COMPLETION OF THE COMPUTER COMPETENCY EXAM OR COMPUTER LITERACY COURSE REQUIRED

5/19/05