DEPARTMENT OF NURSING

The BSN Program is approved by the Georgia Board of Nursing and both the BSN and MSN programs are accredited by the National League for Nursing Accrediting Commission (NLNAC) and the Southern Association of Colleges and Schools (SACS).

The student who meets the criteria for general admission to Albany State University is enrolled in the core curriculum designated by the University. The student who has declared nursing as a major is admitted to the core each semester. The student is admitted to the professional nursing program during the fall semester of each year.

SPECIFIC ADMISSION CRITERIA TO THE GENERIC NURSING PROGRAM

Admission into the Nursing Program, the following are required:

- 1. Completion of approximately 30 hours of the core curriculum with a minimum grade of "C" in each course and in institutional requirements.
- 2. A cumulative GPA of 2.75 in core courses.
- 3. Current enrollment in the last of (or completion of) all required basic science courses including anatomy and physiology, microbiology, and Area D science sequence with a grade of "C" or higher in each course, and no more than one (1) failure in any one of the sciences courses. (Only one failure in science courses is allowed. If the science failure occurred more than 5 years ago, the student has the opportunity to repeat the course one time.)
- 4. Generic nursing students considered for admission must have Anatomy and Physiology course(s) that are less than 6 years old at the time of potential admission into the nursing program. If the Anatomy and Physiology course(s) is/are older than 6 years, the student must retake the course(s) and pass with a "C" or better. The student can elect to challenge the course(s) by passing a national standardized exam on the content at the national average/percentile.
- 5. Students seeking admission into the Nursing Program must have passed the Regents exams with no more than two (2) attempts on each component of the Exams.
- 6. Completion of Standardized Nursing admissions diagnostics test with reading and math scores at the percentile approved by the Nursing Faculty. This exam is scheduled during the spring semester. The exam may also be scheduled once during the summer.
- 7. A completed health record on file in the Student Health Services indicating that all current health policies in the Department of Nursing have been met.
- 8. A current CPR (cardiopulmonary resuscitation/basic cardiac life support (BCLS) card. All students must be certified by the American Heart Association (AHA) in Child and Adult BCLS for health care providers. This certification must be maintained throughout the program (renewed every two years). An outdated CPR certification will prohibit the student from attending clinical practice experiences.

OPTION:

second failure.

Students who do not meet the admission requirements or whose admission has been denied may request an interview (appeal) with the Nursing Admission Committee for a review of his/her entire collegiate academic record. All students should see their advisor prior to completing an application to the Nursing Program. Eligible students who do not meet admission criteria are encouraged to enroll in the Elective Foundations courses: For example, NURS 2112 – Foundations of Professional Nursing or NURS 2121: Foundations of Pathophysiology while working to meet admission requirements. These courses will prepare students for progression in the nursing program once they have met the pre-requisites.

TRANSFER ADMISSION POLICY

- A. A student transferring into the nursing curriculum from an accredited four-year institution will be required to meet the above admission criteria and will follow the generic curriculum pattern including completion of required courses prior to clinical nursing course entry. Credit for any nursing courses taken will be evaluated on an individual basis.
- B. A student transferring from another program with one failure in a nursing course may be considered for admission to upper level nursing, but must obtain a core GPA of 3.0 for 2 semesters in courses recommended by faculty, before admission. The failure will count as the first nursing failure.
- C. A student who has failed (D or less) two nursing courses, whether at a two-year institution or at a four-year institution, will be ineligible for admission.

Appeals must be made in writing to the Nursing Admissions Subcommittee and submitted to the Department at the time of admission or after the

APPEAL POLICY FOR READMISSION

This policy affects the student whose second failure in a nursing course is in NURS 4345/NURS 4344.

- 1. Student's record will be reviewed for progression by the appropriate faculty committee.
- 2. Student may be allowed to retake the course the next time that it is offered, pending decision by faculty committee.
- 3. Approval must be supported by the Departmental Chair and Dean of the College.

RN STUDENT ADMISSION

Specific Admission Criteria to the RN-BSN Nursing Program

The Albany State University Bachelor of Science in Nursing Degree program follows the collaborative Georgia RN-BSN Articulation Model for Registered Nursing Students

- 1. Nursing credits accepted as advanced standing from prior college credits include the following with a "C" or better:
 - Nutrition
 - Pharmacology
- 2. The Georgia RN-BSN Articulation Model is followed for RNs. No validation testing for prior nursing content is required for students who meet the appropriate criteria of the model.
- 3. During registration of RN students for NURS 4240 (Community Health Nursing) and NURS 4344 (Senior Seminar), the nursing faculty will verify the RN's original Georgia license and subsequently will sign a form indicating that the license is current. Student must also present a copy of the signed license during the admission process and each subsequent year of nursing education until graduation.

(Criteria of articulation model on file in the Department Chair's Office or at the Georgia Board of Nursing, 237 Coliseum Drive, Macon, GA 31217-3858.) Website: http://www.sos.state.ga.us

BACHELOR OF SCIENCE IN NURSING DEGREE CORE A-F AND ABOVE THE CORE REQUIREMENTS

Each student must complete the Core Curriculum. The Core consists of 9 hours in Area A (Essential Skills), 5 hours in Area B (Institutional Options), 6 hours in Area C (Humanities/Fine Arts), 10-11 hours in Area D (Science, Mathematics and Technology), 12 hours in Area E (Social Science), 18 hours in Area F (Courses related to program of study), and 6 hours above the Core.

Area F courses:

NURS 2120 Human Growth and Development in the Health Professions3 hoursBIOL 2411/2412 Anatomy and Physiology I and II8 hoursBIOL 2211 Microbiology4 hoursNURS 2601 Introduction to Geriatric Nursing3 hours

ADDITIONAL REQUIREMENTS

Each student must maintain a "C" average in order to progress in the nursing major. The minimum score for obtaining a "C" is 75. A student who fails a nursing course will be allowed to repeat this nursing course one time when it is offered again in the curriculum; however, this failure means that the student will be unable to progress in the nursing program until the same course is satisfactorily completed. A second failure of a nursing course will constitute grounds for dismissal from the nursing program. (An appeal for readmission may be initiated after one year.)

RE-ENTRY INTO PROGRAM

All undergraduate nursing students who experience any interruption that results in non-completion of a Nursing Course will be required to successfully complete the appropriate NURS Remediation Course prior to re-entry into the Nursing Program. The course will be listed as NURS 4111 with the appropriate hours for the class needed to re-enter the nursing program. Students who have an interruption in matriculation of any nursing course must have a second criminal background check prior to re-enrollment. All background checks will be submitted before the last day of the university's registration period for the semester.

Each student is responsible for an approved uniform, selected equipment, health and liability insurance, a criminal background check, standardized testing (required with most nursing courses), transportation, yearly physical examinations, immunizations, chest X-rays and selected laboratory tests. The curriculum is designed for approximately four years of study. Courses in clinical nursing will begin in the sophomore year and continue through the remainder of the program

Clinical experiences are provided in home/community settings, hospitals, clinics, rehabilitation centers, nursing homes, primary health care centers, community health and social agencies, schools, industries and other selected settings.

REQUIREMENTS FOR BACHELOR OF SCIENCE IN NURSING DEGREE

- 1. Completion of 123 semester hours in the required program of study.
- 2. A grade point average (GPA) of 2.0 or better.

-	~	-	~	*** ***
PDOCDAM	OF STIDU FO	D A RACHELOE	OF SCIENCE I	N Nursing Degree
I KUUTKAWI	OF STUDY FU	K A DAUHELUR	CUT SCIENCE I	N MURSING DEGREE

Prog1	RAM OF STUI	DY FOR A BACHELOR OF SCIENCE IN NUR	SING DEGREE
Freshman	Year		Fall, Spring & Summer
ENGL	1101	English Composition I	3
MATH	1111	College Algebra or	
MATH	1101	Math Modeling	3
AREA D	Area D	Science Course I	4
COMM	1100	Public Speaking	3
COHP	2120	Growth & Development/Health Professions	
ASU	1201	Foundations of College Success	3
COHP	2110	Nutrition	2 3 3
ENICI	1100	E ELG W H	1
ENGL	1102	English Composition II	3
BIOL	2411	Anatomy & Physiology I	4
PSYC	1101	General Psychology	3
AREA D	1001	Area D Science II	4
COHP	1231	Professional Nursing Orientation Seminar (Elective)	1
NURS	2600	Health & Medical Terminology	3
BIOL Total	2211	Microbiology	4 40
Sophomor	e Vear		
BIOL	2412	Anatomy & Physiology II	1
NURS	3510	Health Assessment	4 3
NURS	2210	Pharmacology	3
NURS	2231	Fundamentals of Professional Nursing Practice	5
NURS	2331	Adult Health Nursing I	5
COMM	1100	Public Speaking	5 5
SOCI	2011	Principles of Sociology	3
NURS	3320	Pathophysiology	3
PEDH	3320	Activity PE	1
Total		Activity 1 D	30
Junior Yea	ır		
NURS	3134	Pediatric Nursing	5
POLS	1101	US & GA Government	3
MATH	2411	Basic Statistics	3
NURS	2601	Introduction to Geriatric Nursing	3
PEDH	2001	Activity	1
HIST		History Option	3
*NURS	3312	Orientation to Phil. Concepts (RN-BSN)	5
NURS	3136	Women's Health Nursing	5
NURS	3335	Mental Health Nursing	5
AREA C	Area C	Fine Arts Option	3
Total	111000 0	1 mv 1 m 0 op 10 m	31
Senior Yea	nr		
PEDH		Activity	1
ENGL	2111	World Literature I	3
NURS	4140	Leadership	2
NURS	4342	Adult Health Nursing II	5
NURS	4131	Research	3
NURS	4240	Community Health Nursing	5
*NURS	4344	Senior Seminar (RN-BSN)	3
NURS	4345	Senior Comprehensive Nursing	5
HIST	1002	Introduction to African Diaspora	2
Total	26	•	
Total requ	ired for graduation		127
	or RN students		127

Nursing E	lectives available:		
NURS	4111	Directed Study	Hours vary
NURS	3010	Junior Externship	1 (1:VAR)
NURS	4010	Senior Externship	1 (1:VAR)
NURS	2112	Foundations of Professional Nursing	3
NURS	2121	Foundations of Pathophysiology	3
NURS	2212	Foundations of Health Assessment	3
Total required for graduation			

DEPARTMENT OF CRIMINAL JUSTICE AND FORENSIC SCIENCE

The Department of Criminal Justice offers Bachelor of Science degrees in Criminal Justice and Forensic Science and the Master of Science degree in Criminal Justice. These degree programs prepare students for professional employment in the criminal justice system, Forensic Science and/or for graduate studies in criminal justice, Forensic Science and law. The curriculum is both broad and flexible enough to permit students to pursue course work in a wide variety of criminal justice and Forensic Science topics cutting across law enforcement, courts, corrections, research, policy analysis, planning and operations and laboratory analysis/management. Students are encouraged to take internships in criminal justice, Forensic Science labs, social service and/or human service agencies.

A minor in Criminal Justice studies, requiring 18 hours of designated study, is also offered with a concentration in the core curriculum.

The Criminal Justice and Forensic Science Department also has established 2+2 programs that permit students at selected area two-year colleges to transfer to the baccalaureate program in Criminal Justice and Forensic Science at Albany State University without loss of credit.

to transfer	r to the baccalaureate progr	am in Criminal Justice and Forensic Science at Albany State University without loss of credit.	
Area A: 1	Essential Skills		(9 hours)
ENGL	1101	English Composition I or	3
HONR	1111	Honors Humanities I (H)	3
ENGL	1102	English Composition II or	3
HONR	1112	Honors Humanities II (H)	3
MATH	1111	College Algebra	3
MATH	1101	Math Modeling (Non-Science Majors)	3
MATH	1113	Pre-Calculus (Required for the	3
		following majors: Math, Computer Science, Chemistry & Biology)	
MATH	1211	Calculus I (Required for Pre-Engineering Majors	4
Area B: 1	Institutional Options		(5 hours)
COMM	1101	Public Speaking	3
HIST	1002	Introduction to African Diaspora	2
Area C. 1	Humanities/Fine Arts		(6 hours)
ENGL	2111	World Literature I or	3
HONR	2111	Honors Humanities III (H)	3
ARAP	1100	Art Appreciation	3
ENGL	2112	World Literature II	3
MUSC	1100	Music Appreciation	3
FREN	2201	Intermediate French	3
GERM	2221	Intermediate German	3
SPAN	2231	Intermediate Spanish	3
FIAR	1100	Introduction to Fine Arts	3
HONR	2112	Honors Humanities IV (H)	3

Regents' Test Remediation Courses

Sci	Hea	lth	Dro	facc	inne
ou.	пеа	ILII	PIU	1622	IUHS

								≥
Select Three								Allbany
PEDH	1001	Team Sports					1	3
PEDH	1002	Fitness					1	
PEDH	1003	Recreational Skills I					1	State
PEDH	1004	Recreational Skills II				1	끚	
PEDH	1005	Lifetime Skills I				1	O.	
PEDH	1005	Lifetime Skills II					1	
							1	
PEDH	1007	Aquatics					1	古名
HEDP	1001	Introduction to Wellness					1	Arts & Humani
Area F: Pr	ogram of Study Related					Courses (1	8 hours)	Ĭ.
CRJU	1100	Introduction to Criminal Justice	e.			0041505 (1	3	iies
SSCI	2402	Microcomp. in the Soc. Science					3	S
CRJU	2400	Report Writing& Research Skil					3	
				1.7				
CRJU	2210	Introduction to Criminal Proceed	dure a	and Law			3	
Select SIX	house							₽
		Huban Casial Dual-1					2	Business
SOCI	2601	Urban Social Problems					3	Пе
PSYC	2203	Advanced General Psychology					3	SS
ECON	2201	Survey of Economics					3	
ENGL	2112, 2204, 2298, 3305						3	
POLS	2102	Introduction to Law					3	
POLS	2101	Introduction to Political Science	e				3	
Any	Language	Services to a service service	-				3	
SOWK	2411-2211	The Social Welfare Institution					3	
SOWK	2411-2211	The Social Wellare institution					3	8
Area G:							(42 hours)	C
CRJU	2200	Intro. to Law Enforcement					3	cation
CRJU			_					₹
	2600	Juvenile Delinquency & Justice					3	5
CRJU	2800	American Correctional Systems	S				3	
CRJU	2900	Criminology					3	
CRJU	3410	Criminal Justice Research					3	
CRJU	3530	Criminal Justice Ethics & Prof.					3	TIES
CRJU	4650	U.S. Court Systems					3	Science Health Profess
CRJU	4999	Senior Capstone Seminar					3	
CRJU	2500	Constitution Procedure					3	
CRJU	2700	Police Community Relations					3	\$ 8 8
								77 90
CRJU	2910	Organization and Administration	Ш				3	
CRJU	3000	Global Terrorism					3	
CRJU	3300	Comp. International Legal Syst					3	
FOSC	3030	Criminal Evidence and Court P					3	
CRJU	4130	Law Enforcement & Legal Pro-	ces				3	% व
CRJU	4210	Philosophy of Law& Punishme					3	Gradua School
CRJU	4340	Corrections & Legal Process					3	hoo
CRJU	4350	Treat & Evaluations in Correcti	ions				3	무등
CRJU	4360	Community-Based Corrections					3	큥
Sophomore		Community Buota Comtations					5	
-		Common of World III at a mark	2	DCVC	1101	Can and Develor	2	
HIST	1111	Survey of World History I	3	PSYC	1101	General Psychology	3	
SOCI	2011	Principles of Sociology	3	ENGL	2111	World Literature I	3	90
CRJU	2400	Report Writing & Research	3	Area C		Choice	3	Course Descrip
CRJU	2210	Intro. to Crim. Procedure	3	Area D		Choice	3	2.3
SSCI	2402	Micro. In the Soc. Sciences	3	PEDH			1	
PEDH			2					ਰੰ
				Total			13	lions
Total		17					10	
IVIAI		17						
								= -
								<u> </u>

Sophome	ore Spring		
CRJU	4510	Organized and White Collar Crimes	3
CRJU	4520	Drugs and Crimes	3
CRJU	4530	Comparative Criminology	3
CRJU	4610	Internship (3-12 hours)	3
CRJU	4620	Special Topics in CRJ	3
CRJU	4630	Race, Gender and CRJ System	3
Area H: ((18 hours)		
SOCI		Upper Level Courses (3000-4000) SOCI 3370 & 3371 will NOT fulfill upper level	3
POLS		requirements. Upper Level Courses (3000-4000)	3
Statistics	Course	ECON, SOCI, PSYC or SOWK 4300 OR CRJU 3420	3
General E	lectives		(9 hours)

PROGRAM OF STUDY FOR BACHELOR OF SCIENCE DEGREE IN CRIMINAL JUSTICE

Freshman	Year			c ·			
Fall	4404	P 11 1 0 11		Spring	1100	T 11.1.0 T	
ENGL	1101	English Composition		ENGL	1102	English Composition II	3
MATH	1111	College Algebra	3	HEDP		Intro. to Wellness	1
COMM	1101	Public Speaking	3	HIST	1002	Intro. to the African Diasp	ora2
ASU	1200	Freshman Seminar &	Ž				
		Service to Leadership	p3	BIOL	1112K	Intro. to Biological Science	es 4
BIOL	1111K	Intro. to Bio.	4	POLS	1101	U.S. & GA Government	3
				CRJU	1100	Intro. to Criminal Justice	3
Total			16	Total			16
Junior							
Fall				Spring			
CRJU	2500	Constitutional	3	Upper Crim	inal Justice	Choice	15
CRJU	2900	Criminology	3	PEDH			1
CRJU	2910	Organization &	3				
CRJU	3410	Criminal Justice	3				
Total			12	Total			16
Senior Yea	r						
Fall					Spring		
Upper Soci	ology		3		General		9
POLS Choi			3		Statistics		3
General Ele			3		Upper CRJU		3
CRJU	3530	Ethics & Prof.	3		Opper Citato		3
			_				
CRJU	4999	Sr. Capstone Semina			770 / N		
Total			15		Total		15

FORENSIC SCIENCE DEGREE PROGRAM

The Bachelor of Science degree in Forensic Science is the only four-year degree program in Georgia and is housed in the Department of Criminal Justice and Forensic Science. Forensic Science is the application of scientific methods to crime scene investigation and criminal prosecution. The program is interdisciplinary and is based on the natural sciences; chemistry, physics and biology. This program prepares students for professional careers in crime laboratories as criminalists, trace evidence specialists, serologists, DNA specialists, toxicologists, drug analysts, firearms and fingerprint examiners, staff photographers and evidence technicians.

BACHELOR OF SCIENCE IN FORENSIC SCIENCE

		TENCE IN POREISIC SCIENCE	
AREAA:	ESSENTIAL SKIL	LLS (9 hours)	Credit Hrs.
ENGL	1101	English Composition I or	3
HONR	1111	Honors Humanities I (H)	3
ENGL	1102	English Composition II or	3
HONR	1112	Honors Humanities II (H)	3
SELECT	ONE AS REQUIRE	D	
MATH	1111	College Algebra	3
MATH	1101	Math Modeling (Non-Science Majors)	3
MATH	1113	Pre-Calculus	3
		(Required for the following majors Mathematics, Computer Science, Chemistry, Biology, Forensic Science)	
MATH	1211	Calculus I (Required for Pre-Engineering majors)	4
AREA B:	: INSTITUTIONA	L OPTIONS (5 hours)	
	101 Public Speakin		3
HIST 100	2	Intro to African Diaspora	2
		TINE ARTS (6 hours)	
ENGL	2111	World Literature I	3
HONR	2111	Honors Humanities III (H)	3
$-\frac{\text{SELECT}}{\text{ARAP}}$	1100	Art Appreciation	3
ENGL	2112	World Literature II	3
MUSC	1100	Music Appreciation	3
FREN	2201	Intermediate French	3
GERM	2221	Intermediate German	3
SPAN	2231	Intermediate Spanish	3
FIAR	1100	Introduction to Fine Arts	3
ARFA D	· SCIENCE MATI	H & TECH (10-11 hours)	
		JORS (SELECT TWO)	
CHEM	1211	General Chemistry I	3
CHEM	1212	General Chemistry II	3
PHYS	1111	Introductory Physics	3
PHYS	1112	Introductory Physics	3
PHYS	2221	Principles of Physics I	3
PHYS	2222		3
SELECT	ONE		
MATH	1113	Pre-Calculus	3
MATH	1211	Calculus I	3
MATH	2212	Calculus II	3
PHYS	2100	Computer Applications FOSC 4201 L	3
	EXIT EXAM		
(NO MIN	imum or Maximum	Required Score)	

The Academic requirements for Forensic Science program have been modified and specific admission criteria have been developed as recommended by the American Academy of Forensic Science's (AAFS) Forensic Science Education Programs Commission (FEPAC)

Requirements for Specific admission Criteria for Forensic Science Majors:

- 1. Completion of 32 hours of the core curriculum with a min grade of C in each course and institutional requirements.
- 2. Completion of General Chemistry I and II (Chem 1211 and Chem 1212) and Organic Chem I, Intro/Prin of Physics I and II with a minimum grade of C.
- 3. A cumulative Grade Point Average of 2.5
- Students seeking admission into the forensic program must pass the Regents Exams with no more than two attempts on each component of the exams.

AREA E:	AREA E: SOCIAL SCIENCE (12 hours)			
POLS	1101	U.S. & Georgia Govt. or	3	
HONR	1161	Honors American Govt.	3	
		(Optional for Honors Student Only)		
SOCI	2011	Principles of Sociology	3	
SOCI	2031	Introduction to Anthropology	3	
ELECTI	IVES Select at least one HI	STORY course and two other courses		
ECON	2105	Macroeconomics	3	
ECON	2106	Microeconomics	3	
ECON	2201	Survey of Economics	3	
GEOG	1101	Intro to Human Geography	3	
HIST	1111	Survey of World History I	3	
HIST	1112	Survey of World History II	3	
HIST	2111	Survey of American History I		
HIST	2112	Survey of American History II	3	
HIST	2113	Minorities in America	3	
HONR	1151	Honors World History I	3	
HONR	1152	Honors World History II	3	
PHIL	2101	Intro to Philosophy	3	
POLS	2101	Intro to Political Science	3	
POLS	2102	Intro to Law		
PSYC	1101	General Psychology	3	
SOCI	2011	Principles of Sociology	3	
SOCI	2031	Introduction to Anthropology	3	
ABOVE	THE CORE: (6 hours)			
ASU	1200	Freshman Sem. & Serv. To Leadership	3	
SELECT	T THREE			
HEDP	1001	Introduction to Wellness		1
PEDH	1001	Team Sports		1
PEDH	1002	Fitness		1
PEDH	1003	Recreational Skills I		1
PEDH	1004	Recreational Skills II		1
PEDH	1005	Lifetime Skills I		1
PEDH	1006	Lifetime Skills II		1
PEDH	1007	Aquatics		1
		•		

AREA F: Program of Study Related Courses (18 hrs)

FOSC 2100	Intro to FOSC w/lab
FOSC 2120	Forensic Photography

CHEM 2301 Organic Chemistry I CHEM 2302 Organic Chemistry II

Select Any One

CHEM 2351 Quantitative Analysis BIOL 2111 General Biology AREA G 23 Hours Supporting Courses for the Major

Minimum one course (3 or 4 hr) required in each of CHEM, PHYS, BIOL, and MATH or SOC Groups (I-IV)

Group I		
CHEM	3250	Biochemistry
CHEM	3221	Physical Chemistry I
CHEM	3222	Physical Chemistry II
Group I		

PHYS Principles of Physics I and 2221 **PHYS** 2222 Principles of Physics II or **PHYS** 1111 Introductory Physics I and **PHYS** Introductory Physics II 1122

Group III

BIOL	3101	Environmental Biology
BIOL	3501	Principles of Genetics
BIOL	4701	Cell and Molecular Biology

Group IV

CRJU 3420 Criminal Justice Statistics, or R SOCI 4300 Behavioral Statisitcs, required

AREA H 37 Hours Forensic Science Courses

Required all 33 hours cour	rses below:	
FOSC	2120	Forensic Photography
FOSC	2130	Crime Scene Investigation
IFOSC	2140	Crime Scene Investigation
II FOSC	3020	Forensic Micro of Trace
(w/lab) FOSC	3030	Criminal Evid. & Court
Proc FOSC	4040	Forensic Sero & DNA
(w/lab) FOSC	4050	Forensic Chemistry (w/lab)
FOSC	4060	SEM-EDX of Trace Evid
(w/lab) FOSC	4201L	Evidence Analysis &
Research I FOSC/CRJU 4	999	Senior Capstone Seminar
CRJU	1100	Introduction to Criminal Justice
FOSC	3100	International Forensic DNA
FOSC	3200	Bio-Terrorism and Biotechnology
FOSC	4120	Electron Optics (w/lab)
FOSC	4130	Expert Witness at Mock Trial
FOSC	4140	Fingerprint Technology (w/lab)
FOSC	4150	Evid. Proc. for Med. Techs. (w/lab)
FOSC	4160	Evidence Collection (w/lab)
		Study/Chemistry Seminar
FOSC	2140	Crime Scene Investigation II

PROGRAM OF STUDY FOR BACHELOR OF SCIENCE DEGREE IN FORENSIC SCIENCE

Freshman '	Year						
Fall				Spring			
ENGL	1101	English Composition I	3	ENGL	1102	English Composition II	3
MATH	1111	College algebra	3	CHEM	1212	General Chemistry II	4
COMM	1101	Public Speaking	3	MATH	1211/2212	Pre Calculus/Calculus 1	3 or 4
ASU	1200	Freshman Seminar &					
		Service to Leadership	3	HIST	1002	Intro to African Diaspora	2
BIOL				POLS	1101	US & Georgia Govt.	3
CHEM	1211	General Chemistry I	4				
Total			16	Total			15-16

2301

1111/2221

1001-1007

Area G

2111

1100

2130

3030

3020

4040

4050

4060

Area E

Area G

Organic Chemistry I

Introductory Physics I

/Principles of physics I

Select one from Part III

Select one from Part IV

1001-1007/1001 (Above the Core) select one)

Crime Scene Investigation I

World Literature

(Above the Core) select one)

Introduction to Criminal Justice

Criminal Evidence & Court Proc.

Select one other than History

Forensic Micro of Trace (w/Lab

Select one from Part I

Forensic Chemistry

Technology

Forensic Serology & DNA

SEM-EDX of Trace Evidence

4

1

4

3

16

3

3

3

1

3

3

16

3

3

3

16

HIST Area E 1111-2/2111-3

1122/2222

2100/2000

PEDH/HED 1001-1007/1001 (Above the Core) select one)

2302

3250

2120

2140

2100

Area E

Area H

4201L

Area G

Select one

PHYS

CHEM

FOSC

Total

Spring

CHEM

FOSC

FOSC

Area E

PHYS

Total

Spring

Area C

FOSC

FOSC

Area G

Total

FOSC/CRJU 4999

Select one History

Introductory Physics I /Principles of physics I

Introduction to Forensic

Organic Chemistry II

Biochemistry

Forensic Photography

Computer applications

World Literature II

or any of the languages

Evidence Anal/Research

Senior Capstone seminar

Select one from Part I/II/III/IV

Crime Scene Investigation II

Select One other than History

Select one from the Specialization2/3

3

4

4

3

1

4

3

3

3

3

16

3

3

3

4

15-16

15

Sci.	Health Profe	ess
tate	SophomoreYo	ear
bany S niversity	CHEM PHYS	23 11
ĕ ⊃	PEDH BIOL ENG Total	10 Ar 21
ts & umanitie	Junior Year Fall CRJU	11
ĀΤ	CRJU/SOCI FOSC PEDH/HEDP FOSC	Ar 213 10 30
siness	Area E Total	A
Bo	SeniorYear Fall FOSC Area G	30
5	FOSC	40
Educat	FOSC FOSC Total	40 40
eg 75		
inces H		

DEPARTMENT OF NATURAL SCIENCES

The Department of Natural Sciences offers degrees in biology and chemistry with course offerings in physics and engineering. The department also offers a degree in science education with a broad based emphasis in biology area.

BIOLOGY

The major in biology provides courses and course sequences leading to the Bachelor of Science degree in biology. The program prepares a student for professional careers and employment in biological sciences and teaching in the area of biology. Flexibility and design of the program aids in preparation for entrance into graduate, medical, pharmacy and dental schools, as well as other professional schools. Students interested in attending medical and dental schools choose from a select number of biology and chemistry courses and are advised by the Pre-Health Advisor.

Students majoring in biology must complete a minimum of 32 hours in biology, including Biology 2111K, 2112K, 2211K, 2311K, 3101K, 3501K, 4001, 4222 and 4701K. Additionally, the Biology major must complete 13 hours of biology electives with a minimum of 8 hours at the 3000 and 4000 level. The electives will be chosen by the student with the advisor from a list of approved electives. Biology majors and minors must make a "C" or better in all biology, chemistry, physics, and mathematics courses. Students must meet the requirements of the Core Curriculum and pass the Regents Exam. Students must also take the Area Concentration Achievement Test (ACAT) in biology during the senior year.

CHEMISTRY

The major in chemistry provides courses and sequences leading to the Bachelor of Science degree in chemistry. The program is designed to follow the criteria for baccalaureate degrees set forth by the Committee on Professional Training of the American Chemical Society. The program prepares students for professional employment after graduation and also provides strong academic and laboratory experiences for those who wish to pursue graduate degrees in chemistry or attend professional schools.

Students must meet the requirements listed in the Core Curriculum and pass the Regents' examination. Students must also complete a minimum of 49 semester hours of chemistry. All students are required to earn at least a grade of "C" in all chemistry, biology, physics, and mathematics courses. All students are required to take the American Chemical Society standardized test in the area in which they are enrolled. Students must also take the chemistry exit

1

3

exam, the Major Field Test (MFT) during the senior year.

SCIENCE EDUCATION

The Bachelor of Science in Science Education is approved by Georgia Professional Standards Commission (PSC) and National Council of Accreditation for Teacher Education. The program leads to Level-4 teacher certification is Broad field Science with biology emphasis. Upon admission to Albany State University, students who have declared science education as their major must formally apply to the Teacher Education Program. Students must meet the following requirements to be fully admitted to the Teacher Education Programs. These requirements include: 1) completion of a minimum 36 semester hours in core and prescribed courses with a cumulative grade point average (GPA) of 2.5 or better; 2) successful completion of Regents Examination and Basic Test for Georgia Assessment for Certification of Educators (GACE1); and 3) acceptable history of mental, emotional and physical health. The exit exam for the program is GACE II, which is content area must be taken by all students.

ENGINEERING

Albany State University offers two tracks of pre-engineering programs that lead to a Bachelor of Engineering degree from the Georgia Institute of Technology: (1) The Regents' Engineering Transfer Program (RETP) and (2) Dual Degree Program.

TRACK 1

The Regents Engineering Transfer Program (RETP) is a cooperative program between the Georgia Institute of Technology and Albany State University that allows students to complete the first two years of the engineering program at Albany State University and then transfer to Georgia Tech to their chosen field of engineering to complete the requirements of B.S. degree in engineering. Student will be admitted to Georgia Tech upon completion of the prescribed courses at Albany State University provided (s)he maintains an overall GPA of 2.7 as well as 2.7 in science and mathematics courses at ASU. At times Georgia Tech may add certain requirements for admission to junior level, which will equally be applied to Georgia Tech students also for advancing to the junior level in that field.

To be eligible for admission to the RETP at Albany State University student must be a resident of Georgia and must have a combined minimum SAT score of 1090 including minimum of 560 on the math and 440 on the verbal portion and a high school GPA of "B" or better. Students who prefer to live and study in a smaller community may also transfer to Georgia Tech Regional Engineering Program (GTREP) at coastal city of Savannah and receive the Georgia Tech engineering degree by completing their studies at Georgia Tech campus at Savannah.

TRACK 2

BIOL

BIOL

BIOL

4001

4222

4701K

The Dual Degree Program is also a cooperative program between Georgia Tech and Albany State University that is designed for students who want to have a broad liberal arts background in addition to their chosen field of engineering. The student will complete approximately three years of study towards a program in Chemistry, Computer Science or Mathematics at Albany State University and then transfer to Georgia Tech for two additional years of study in his/her chosen field of engineering. Upon successful completion of the two programs, student will earn a B.A. degree from Albany State University and a B.S. degree in Engineering from Georgia Tech. The admission and transfer requirements for Dual Degree Program are the same as the RETP program though additional courses as described later in this catalog are needed to qualify for transfer under the Dual Degree Program.

Students are advised to follow the customized list of courses as detailed in this document for each engineering discipline in order to complete their degree goal in the most efficient man-ner. Non-residents of Georgia and international students acan also join the engineering program at ASU though the transfer to Georgia Tech will require higher GPA. After completing the program one may also apply for transfer to any other ABET accredited engineering college any. In the past, students have transferred to the engineering programs at Auburn, Florida A & M, Tuskegee, North Carolina A&T Mercer, Southern Polytechnic and University of Texas at Arlington.

BACHELOR OF SCIENCE DEGREE IN BIOLOGY

Research and Independent Study I

Cell and Molecular Biology

Biology Research

Biology I. Required: 18 hours, lower division (1000-2000 Level)

Area F		,	Titled	Credit hrs.
BIOL		2111K	Biology I	4
BIOL		2112K	Biology II	4
CHEM		2301K	Organic Chemistry I	4
CHEM		2302K	Organic Chemistry II	4
2 credits from A	Area D or Are	ea F		2
Total Area F				18
Total Core Cu	ırriculum			60
Major Course	es			
BIOL	2211K	General Micr	robiology	4
BIOL	2311K	General Bota	ny	4
BIOL	3101K	Environment	al Biology	4
BIOL	3501K	Principles of	Genetics	4

CHEM	3250K Bioch	hemistry	4	
MATH	1211	Calculus I	4	
PHYS	1111K	Introductory Physics I	4	
PHYS	1112K	Introductory Physics II	4	
PHYS	2100	Computer Applications (If not in Area D)	3	
SPAN, FF	REN OR GRMN F	oreign Language sequence	6	
Electives (Non-Science)				
Electives	(Biology)		13	
Total (Ma	jor and other course	es)	61	
Total abov	ve Core Hours		6	
Total Hou	urs in Program		126	

PROGRAM OF STUDY FOR A BACHELOR OF SCIENCE DEGREE IN BIOLOGY

(Suggested Program of Study Only! Student should consult with faculty advisor)

Freshman	ı Year		Fall	Spring
ASU	1200	Freshman Seminar	3	
HIST	1002	Intro. to African Diaspora	2	
ENGL	1101 and 1102	English Composition I & II	3	3
MATH	1113	Pre-Calculus		3
CHEM	1211K and 1212K	General Chemistry I & II	4	4
BIOL	2111K and 2112K	Biology I & II	4	4
BIOL	1801	(Suggested Elective)		1
PEDH	Choice			1
Total			16	16
Sophomore	Vear		Fall	Spring
PEDH	Choice		1	1
ENGL	2111	World Literature		3
CHEM	2301K and 2302K	Organic Chemistry I and II	4	4
BIOL POLS	2211K 1101	General Microbiology U.S. & GA Government		4 3
MATH	1211	Calculus I	4	3
PHYS	2100	Computer Applications	3	
BIOL	2311K	Botany I	4	
Total			16	15
Junior Y	ear		Fall	Spring
HIST	1111	World History I		3
MUSC	1100	Music Apprec. or ARAP 1100 Art Apprec.		3
MUSC PHYS	1111K and 1112K	Introduction to Physics I and II	4	3 4
MUSC PHYS BIOL	1111K and 1112K 3101K	Introduction to Physics I and II Environmental Biology	-	3 4 4
MUSC PHYS BIOL CHEM	1111K and 1112K 3101K 3250K	Introduction to Physics I and II Environmental Biology Biochemistry	4	
MUSC PHYS BIOL CHEM COMM BIOL	1111K and 1112K 3101K	Introduction to Physics I and II Environmental Biology	-	
MUSC PHYS BIOL CHEM COMM BIOL BIOL	1111K and 1112K 3101K 3250K 1100	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking	4 3 4	3
MUSC PHYS BIOL CHEM COMM BIOL	1111K and 1112K 3101K 3250K 1100	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics	4 3	4
MUSC PHYS BIOL CHEM COMM BIOL BIOL Total	1111K and 1112K 3101K 3250K 1100 3501K	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics	4 3 4	3 17
MUSC PHYS BIOL CHEM COMM BIOL BIOL Total	1111K and 1112K 3101K 3250K 1100 3501K	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics	4 3 4 15	4 3 17 Spring
MUSC PHYS BIOL CHEM COMM BIOL BIOL Total Senior Ye BIOL 42	1111K and 1112K 3101K 3250K 1100 3501K	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics Elective	4 3 4 15 Fall	3 17
MUSC PHYS BIOL CHEM COMM BIOL BIOL Total Senior Ye BIOL 42 BIOL 47	1111K and 1112K 3101K 3250K 1100 3501K 222 Biology Research 701K Cell and Molecular	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics Elective	4 3 4 15 Fall	3 17 Spring 2
MUSC PHYS BIOL CHEM COMM BIOL BIOL Total Senior Ye BIOL 42 BIOL 47 Foreign L	1111K and 1112K 3101K 3250K 1100 3501K 22r 222 Biology Research 701K Cell and Molecular anguage (Spanish, Frence	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics Elective	4 3 4 15 Fall	4 3 17 Spring 2
MUSC PHYS BIOL CHEM COMM BIOL BIOL Total Senior Ye BIOL 47 Foreign L NON-Sci	1111K and 1112K 3101K 3250K 1100 3501K 222 Biology Research 201K Cell and Molecular anguage (Spanish, Frencence Electives	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics Elective	4 3 4 15 Fall	4 3 17 Spring 2 3 3
MUSC PHYS BIOL CHEM COMM BIOL BIOL Total Senior Ye BIOL 47 Foreign L NON-Sci Biology E	1111K and 1112K 3101K 3250K 1100 3501K 222 Biology Research 222 Biology Research 201K Cell and Molecular 23 Anguage (Spanish, Frence ence Electives	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics Elective Biology th of German sequence)	4 3 4 15 Fall 4 3	3 17 Spring 2 3 3 4
MUSC PHYS BIOL CHEM COMM BIOL BIOL Total Senior Ye BIOL 47 Foreign L NON-Sci Biology E BIOL 40	1111K and 1112K 3101K 3250K 1100 3501K 222 Biology Research 201K Cell and Molecular anguage (Spanish, Frence ence Electives Electives 301 Research and Indep. 5	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics Elective Biology th of German sequence)	4 3 4 15 Fall 4 3	3 17 Spring 2 3 3 4 1
MUSC PHYS BIOL CHEM COMM BIOL BIOL Total Senior Ye BIOL 47 Foreign L NON-Sci Biology E	1111K and 1112K 3101K 3250K 1100 3501K 222 Biology Research 201K Cell and Molecular anguage (Spanish, Frence ence Electives Electives 301 Research and Indep. 5	Introduction to Physics I and II Environmental Biology Biochemistry Fundamentals of Public Speaking Principles of Genetics Elective Biology th of German sequence)	4 3 4 15 Fall 4 3	3 17 Spring 2 3 3 4

Biology Electives		Ci	edit Hrs.
Courses	Title		
BIOL	1801	Science Career Explorations	1
BIOL	2113K	Invertebrate Zoology	3
BIOL	2312K	General Botany II	4
BIOL	2412K	Anatomy and Physiology II	4
BIOL	2320K	Lab Research Techniques	3
BIOL	2415	Scientific Writing	3
BIOL	2702K	Fundamentals of Biotechnology	4
BIOL	3201K	Entomology	4
BIOL	3309K	Plant Anatomy	3
BIOL	3311K	Introduction to Natural Resources	3
		2011 2012 UNDED CD ADMATE CATALOC	

				Sci. Health Profes	ssions
					Ą
BIOL	3312K	Planning and Managing Natural Resources		3	Βa
BIOL	3313K	Natural Resources and Environmental Police	у	3	5
BIOL BIOL	3314K 3315K	Use of Energy Resources Conservation of Energy Resources		3 3	<u>\S</u>
BIOL	3316K	Sources and Uses of Plant & Wildlife Resources	iroec	3	at
BIOL	3317K	Natural Resources and Food Production	II CCS	3	ō
BIOL	3318K	Marine Life Resources		3	
BIOL	3319K	Conservation of Marine Life Resources		3	Ξ≥
BIOL	3320K	Principles and Techniques in Water Resource	e Services	4	5 ₹
BIOL	3321K	Conservation of Plant and Wildlife Resource	es	3	₫ %
BIOL	3401K	Introduction to Histology		4	ŧ
BIOL	3506	Bioinformatics		3	o O
BIOL BIOL	3611K 3701	Medical Mycology		4 2	
BIOL	3801K	Current Issues and Topics in Biotechnology Electron Microscopy		3	
BIOL	3901K	Pathophysiology		3	
BIOL	4002	Research and Independent Study II		1	B
BIOL	4101K	General Physiology		4	5
BIOL	4201K	Introduction to Parasitology		4	ine
BIOL	4301K	Developmental Biology		4	SS
BIOL	4401K	Comparative Vertebrate Anatomy		4	
BIOL	4501K	Immunology		4	
BIOL	4601K	Plant Physiology		4	
BIOL	4702K	Biotechnology		4	
BIOL	4703K	Genetic Engineering		4	
Non-Bio MATH PHYS	logy Elective 2411 2120	Basic Statistics or Applied Math for Sciences I		3 3	ucation
		**			
		CTIVES FOR SPECIFIC CAREER CHOICES			
I. Gradı	ate School Course	s selected in conjunction with advisor.			ocienc Health Profess
II. Pre-H	ealth Careers (Cou	urses are selected from those listed below).			1 三直
BIOL	3401K	Histology			₫ '
BIOL	4101K	General Physiology			
BIOL	4301K	Developmental Biology			
BIOL	4401K	Comp. Vert. Anatomy			
III Dial	ogiaal Caroors (P	otanical Emphasis)			
BIOL	одісаї Сатест s (Б 3309К	Plant Anatomy			୪ହ
BIOL	2312K	Botany			a de
BIOL	4601K	Plant Physiology			o dic
	technology Concer		Credit hrs		ul e
BIOL	2702K	Fundamentals of Biotechnology	4		
BIOL	3506	Bioinformatics	3		
BIOL	3701	Current Issues and Topics in Biotechnology	2		
BIOL	4703K	Genetic Engineering	4		ŞΩ
MINOD	IN DIOLOGY (M	linimum of 20 hours)			SS
		Biology are required to complete the following course	d.		rip Se
BIOL	2111K and		~•	8	₹
BIOL	2311K	General Botany I		4	ПS
BIOL	3101K	Environmental Biology 4 or appropriate B	iology substitute		
BIOL	4701K	Cell and Molecular Biology		4	
Total				20	_
MINOR	IN Biology (Enviro	nmental Emphasis)			Per
		etion of a minimum of 21 hours)			SOL SOL

Required Courses for a Minor in Natural Resources (9 hours)

BIOL	3311K	Introduction to Natural Resources
BIOL	3312K	Planning and Managing Natural Resources
BIOL	3313K	Natural Resources and Environmental Policy

Four Additional Courses from Categories I, II, III and IV:

our Addi	ur Additional Courses from Categories 1, 11, 111 and 1 v:					
I.	BIOL	3314K	Use of Energy Resources or			
	BIOL	3315K	Conservation of Energy Resources			
II.	BIOL	3318K	Marine Life Resources or			
	BIOL	3319K	Conservation of Marine Life Resources			
III.	BIOL	3320K	Principles and Techniques in Water Resources Services			
	BIOL	3316K	Sources and Uses of Plants and Wildlife Resources			
IV	BIOL	3317K	Natural Resources and Food Production			
	BIOL	3321K	Conservation of Plant and Wildlife Resources			

BACHELOR OF SCIENCE DEGREE IN SCIENCE EDUCATION BROAD BASED SCIENCE

Courses		Titles	Credit Hrs.
18hours low	er division (100	00-2000 level)	
PHYS	1111K	Introductory Physics I	4
PHYS	1112K	Introductory Physics II	4
BIOL	2111K	Biology I	4
EDUC	2110	Invest Critical/Contemporary Issues in Ed.	3
EDUC	2120	Explor Soci/Cul Perspectives	3
Total Hour	S		18
Major Co	ırses	Titles	Credit Hrs.
EDUC	2130	Expl Teaching/ Learning	3
EDUC	4412	Student Teaching	12
EDUC	4405	Methods/Material of Teaching Science	3
EDUC	4400	Prep. for Teaching	2
EDUC	4441	Teaching Reading in Sec. Sch.	3
CHEM	2301K	Organic Chem I	4
CHEM	2302K	Organic Chem II	4
CHEM	3250K	Biochemistry	4
PHYS	3002	Advance Earth Space Science	4
BIOL	2112K	Biology II	4
BIOL	2211K	Intro to Microbiology	4
BIOL	3501K	Principle of Genetics	4
BIOL	2311K	General Botany I	4
SPED	3230	Contemp. Perspective of Exceptional Students	3
Total Hou	rs		58

PROGRAM OF STUDY FOR THE BACHELOR OF SCIENCE DEGREE IN SCIENCE EDUCATION BROAD BASED EMPHASIS

		TO DISED LITTINGS		
Freshman Ye			Fall	Spring
ASU	1200	Freshman Seminar & Service to Leadership	3	
HEDP	1001	Introduction to Wellness or PEDH	1	
HIST	1002	Intro. to the African Diaspora	2	
ENGL	1101	English Composition I	3	
ENGL	1102	English Composition II	3	
MATH	1113	Pre-Calculus		3
BIOL	2111K	Biology I	4	
BIOL	2112K	Biology II		4
CHEM	1211K	General Chemistry I	4	
CHEM	1212K	General Chemistry II	4	
EDUC	2110	Inves. Critical/Contemporary Issues in Edu.		3
Totals			16	18
Sophomore	Voor		Fall	Spring
ENGL	2111	World Literature	3	Spring
			1	
PEDH	1002	Fitness or other choice		
MATH	1211	Calculus I	4	
BIOL	2311K	Botany I	4	
EDU	2120	Explore Socio. Culture Perspective on Divers.	3	
BIOL	2211K	General Microbiology	4	
POLS	1101	U.S. and GA Government	3	
CHEM	2301K	Organic Chemistry I	4	
CHEM	2302K	Organic Chemistry II	4	
EDU	2130	Explore Teaching/Learning	3	
PEDH	choice	100X Physical Education choices	1	
Totals			16	18
Junior Ye			Fall	Spring
PHYS	1111K	Introductory Physics I	4	
PHYS	1112K	Introductory Physics II	4	
BIOL	3501K	Principles of Genetics	4	
CHEM	3250K	Biochemistry	4	
COMM	1100	Anal. Disc. Of Global Issues	3	
Sped	3230	Contemp Perspective of Except Students	3	
Area C	elective	Fine Arts/ Humanity elective	3	
PHYS	3002	Adv Earth/ Space Science	4	
Area E	elective	Social Science Elective	3	
Total			18	14
Summer		F (1017)	2	
SPED	2330	Exceptional Children	3	
MATH	2411	Statistics	3	
Total			6	
Senior Y	ear		Fall	Spring
Area E		Social Science Elective	3	
EDUC	4400	Prep. for Teaching	2	
EDUC	4441	Teaching Reading	3	
HIST	1111	World History I (or other history elective)	3	
EDUC	4405	Methods of Teaching Science	3	
EDUC	4412	Student Teaching	12	
Total		-	14	12

BACHELOR OF SCIENCE DEGREE IN CHEMISTRY

Courses		Titles	Credit Hrs.			
I. Required:	I. Required: 18 hours, lower division (1000-2000 Level)					
CHEM	1211K	General Chemistry I	4			
CHEM	1212K	General Chemistry II	4			
CHEM	2301K	Organic Chemistry I	4			
CHEM	2302K	Organic Chemistry II	4			
2 credit hou	rs course take	en from Area D for science majors	2			
Total		•	18			
BIOL	2111K	Biology I	4			
MATH	2212	Calculus II	4			
MATH	2213	Calculus III	4			
CHEM	2351K	Quantitative Analysis I	4			
CHEM	2352K	Quantitative Analysis II	4			
CHEM	3221K	Physical Chemistry I	4			
CHEM	3222K	Physical Chemistry II	4			
CHEM	3231	Intermediate Inorganic Chemistry I	3			
CHEM	3250K	Biochemistry	4			
CHEM	4100K	Instrumental Analysis	4			
CHEM	4110	Chemical Literature	1			
CHEM	4111	Junior Seminar	1			
CHEM	4120	Senior Research I	1			
CHEM	4130K	Senior Research II	3			
PHYS	2100	Computer Applications	3			

12 **60**

Electives (2000 level or higher including at least one 3 hr. class outside the department) **Total**

PROGRAM OF STUDY FOR THE BACHELOR OF SCIENCE DEGREE IN CHEMISTRY

Freshman Year			Fall	Spring
ASU	1200	Freshman Seminar & Service to Leadership	3	•
ENGL	1101	English Composition I	3	
ENGL	1102	English Composition II		3
MATH	1113	Pre-Calculus	3	
MATH	1211	Calculus I		4
CHEM	1211K	General Chemistry I	4	
CHEM	1212 K	General Chemistry II		4
PHYS	2100	Computer Applications		3
CORE E		Social Sciences	3	
HIST	1002	Intro. to African Diaspora		2
Totals			16	16

Sophomor	e Year		Fall	Spring
ENGL	2111	World Literature I		3
PEDH	1001-1010			1
PHYS	2221K	Principles of Physics I		4
CHEM	2301K	Organic Chemistry I	4	
CHEM	2302K	Organic Chemistry II		4
CHEM	2351K	Quantitative Analysis I	4	
CHEM	2352K	Quantitative Analysis II		4
MATH	2212	Calculus II	4	
Area C		Humanities/Fine Arts	3	
HEDP	1001	Introduction to Wellness	1	
Total			16	16

Junior Year			Fall	Spring
CHEM	3221K	Physical Chem. I		4
CHEM	4110	Chemical Literature	1	
Core E		Social Sciences	3	3
Core E		Social Sciences or CHEM 2351K		3
BIOL	2111K	Biology I		4
MATH	2213	Calculus III	4	
PHYS	2222K	Principles of Physics II	4	
COMM	1100	Fundamentals of Public Speaking	3	
PEDH	1001-1010	· ·	1	
CHEM	4111	Junior Seminar I		1
Total			16	15
Senior Year	Fall	Spring		
CHEM	3222K	Physical Chemistry II	4	
CHEM	3231	Intermediate Inorganic I		3
CHEM	4100K	Instrumental Analysis		4
CHEM	4120	Senior Research I	1	
CHEM	4130K	Senior Research II		3
CHEM	3250K	Biochemistry	4	
Electives	Core F		6	6
Total			15	16
Total				126 hrs

REQUIRED COURSES FOR A MINOR IN CHEMISTRY

Minor in Chemistry acquired after completing 20 Semester hours. Students must complete courses with a grade of 'C' or better.

Courses		Titles	Credit Hrs.
CHEM	1212K	General Chemistry II	4
CHEM	2301K	Organic Chemistry I	4
CHEM	2302K	Organic Chemistry II	4
CHEM	3250K	Biochemistry	4
CHEM	2351K	Quant. Analysis I or other 2000 level or higher chemistry course	4
Total			20

REQUIRED COURSES FOR PRE-ENGINEERING AND DUAL DEGREE PROGRAMS

The program is structured to transfer students specifically to Georgia Institute of Technology but may equally be useful to transfer to any other ABET accredited engineering program. The minimum course requirement imposed by Georgia Tech for both RETP and Dual Degree programs is dependent on the type of engineering major students choose. However, additional courses are required by Albany State University before granting recommendation for transfer which guarantees placement in the junior year at Georgia Tech. *The following course list is designed for RETP transfer. Dual Degree transfer students have to complete additional courses.* However, at any time, students can, *on their own*, apply to Georgia Tech without completing the recommended courses and may get admitted.

Engineering Majors in Georgia Institute of Technology:

AE- Aerospace Engineering, BME- Biomedical Engineering, ChE - Chemical Engineering, CE - Civil Engineering' EnvE - Environmental Engineering, EE - Electrical Engineering, CmpE - Computer Engineering, ISyE - Industrial & Systems Engineering, MSE - Materials Science Engineering, ME - Mechanical Engineering, NRE - Nuclear and Radiological Engineering, PTFE - Polymer, Textile & Fiber Engineering

Courses	Engineering Major
GA TECH RETP Required Courses	
Biology I (BIOL 1111K)	BME, ChE*
Calculus I (MATH 1211)	Required for all Engineering Majors
Calculus II (MATH 2212)	Required for all Engineering Majors
Calculus III (MATH 2213)	Required for all Engineering Majors
Differential Equations (MATH 3211)	AE, BME, ChE, CE, EnvE, EE, CmpE, MSE, ME, NRE, PTFE
Linear Algebra (MATH 2111)	Required for all Engineering Majors
Chemistry I (CHEM 1211K)	AE, BME, ChE, CE, EnvE, EE, CmpE, MSE, ME, NRE, PTFE
Chemistry II (CHEM 1212K)	ChE, EnvE, MSE, PTFE
Physics I (PHYS 2221K)	Required for all Engineering Majors
Physics II (PHYS 2222K)	Required for all Engineering Majors
Science Elective I	AE*, CE, EnvE, EE, CmpE, ISyE, ME, NRE,
Science Elective II	ISyE
Computer Science I (CS 1371)	Required for all Engineering Majors*
English Comp I (ENG 1101)	Required for all Engineering Majors
English Comp II (ENG 1102)	Required for all Engineering Majors
ASU RETP Required Courses	
US & GA Gov (POLS 1101)	Required for all Engineering Majors
Macro or Microeconomics	Required for all Engineering Majors
(ECON 2105 or 2106)	
Engineering Computing (ENGR	Required for all Engineering Majors*
1200)	
Engineering Graphics (ENGR 1203)	AE, CE, ME
Principles of Engineering	Required for all Engineering Majors
Analysis & Design (ENGR	
1103)	
Introduction to	Required for all Engineering Majors
Engineering Materials (ENGR	
Engineering Statics (ENGR	Required for all Engineering Majors
2201)	required for an Engineering Majors
Introduction to Computer Engineering	EE, CmpE
(CSCI 2030)	EL, Chipt
Discrete Mathematics (MATH 3112)	ISyE
Mathematical Statistics (MATH 3314)	AE, BME, CE, EE, CmpE, ME
General Psychology (PSYC 1101)	ISVE
Organic Chemistry I (CHEM 2301K)	BME, ChE
Organic Chemistry II (CHEM 2302K)	ChE
Physical Chemistry I (CHEM 3222K	ChE
Physical Chemistry II CHEM 3221K)	ChE
Biochemistry (CHEM 3250)	BME
Stochemon (CILLII 3250)	2.1.2

- 1) *Courses may be taken at Georgia Tech; however, it is recommended that they are completed prior to transferring to Tech for these majors if possible.
- 2) Science electives may be selected from Chemistry, Biology, Physics, Earth and Atmospheric Science, or other courses approved by the engineering school.
- 3) Students may need to take College Algebra (MATH 1111) & Pre-Calculus (MATH 1113) in order to take Calculus I (MATH 1211)
- 4) In order to guarantee transfer to Georgia Institute of Technology under Regents Engineering Transfer Program (RETP), a student must successfully finish the entire curriculum as described above and secure an overall GPA of at least 2.7 as well as Mathematics and Science GPA of at least 2.7.
- 5) As Georgia Tech follows a no forgiveness policy, in calculating GPA, grades in all courses are counted including those taken at other institutions and those repeated here at Albany State University in order to improve the previous grade.

Dual Degree Requirements

Additional Courses Required for Dual Degree in Chemistry

I	Required Chemist	ry Courses	Credits	Semester Offered
CHEM	1211K	General Chemistry I	4	Fall and Spring
CHEM	1212K	General Chemistry II	4	Fall, Spring, Summer
CHEM	2301K	Organic Chemistry I	4	Fall and Spring
CHEM	2302K	Organic Chemistry II	4	Fall and Spring
CHEM	2351K	Quantitative Analysis I	4	Fall
CHEM	2352K	Quantitative Analysis II	4	Spring
CHEM	3221K	Physical Chemistry I	4	Spring
CHEM	3222K	Physical Chemistry II	4	Fall
(Chemistry Electives (2000 level or higher)			
	Total Chemistry Credit Hours Required to obtain Chemistry Degree from Albany State University			

Additional Courses Required for Dual Degree in Computer Science for Computer Engineering Majors

ALBANY STATE UNIVERSITY	HOURS	GEORGIA TECH SUBSTITUTIONS	HOURS
CSCI 1301 COMPUTER SCIENCE I	4		
CSCI 1302 COMPUTER SCIENCE II	4		
CSCI 3111 DISCRETE STRUCTURES	3		
CSCI 3122 DATA STRUCTURES	3		
CSCI 4113 OPERATING SYSTEMS & CSCI 3212 COMPUTER ORG. & ARCHITECTURE II	3 3	ECE 3055 COMPUTER ARCHITECTURE AND OPERATING SYSTEMS	4
CSCI 4123 COMPUTER NETWORKS	3	ECE 3076 COMPUTER COMMUNICATIONS	3
CSCI 3211 COMPUTER ORG. & ARCHITECTURE I	3	ECE 2031 DIGITAL DESIGN LABORATORY	3
CSCI 4151 SYSTEMS SIMULATION	3	ISYE 3044 SIMULATION ANALYSIS AND DESIGN	3
CSCI 4311 COMPUTER GRAPHICS	3		
CSCI 4221 SOFTWARE ENGINEERING	3		
MATH 2212 CALCULUS II	3		
MATH 2213 CALCULUS III	3		
MATH 2111 LINEAR ALGEBRA	3		
MATH 3423 INTRO TO OPERATIONS RESEARCH	3		
TOTAL CREDIT HOURS	47		

Additional Courses Required for Dual Degree in Mathematics					
Courses	Hours				
Calculus I*, II, III	12				
Basic Statistics	3				
MATH 4211-Elements of Analysis I	3				
MATH 4111-Modern Algebra I	3				
MATH 3314-Statistical Methods	3				
MATH 3211-Ordinary Differential Equations	3				
MATH 3423-Introduction to Operations Research	3				
MATH 3213-Modern Geometry	3				
MATH 3411-Statistcial Methods	3				
MATH 3101-Introduction to Number Theory	3				
MATH 4215-Numericval Analysis	3				
MATH 3112-Discrete Mathematics	3				
MATH 2111-Linear Algebra*	3				
Total	48				

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

The Department of Mathematics and Computer Science offers programs of study leading to the Bachelor of Arts degree in Mathematics, the Bachelor of Science degree in Computer Science with emphasis in mathematics, Bachelor of Science degree in Computer Science with emphasis in business and offers graduate courses to support the Master of Education degree with concentration in mathematics. The Department also provides courses in support of the curriculums of other departments at the University and minor programs in mathematics and computer science. The minor programs are designed for those students interested in pursuing graduate study or the wide variety of careers in the fields of mathematics and computer science. Students in computer science may choose to concentrate in business or mathematics. To be admitted to the department as a major, the student must have a cumulative grade point average of 2.25 or higher.

The major in mathematics provides course work that leads to the Bachelor of Arts degree in mathematics. In addition to the general institutional requirements, the major in mathematics is required to complete 60 semester hours in major courses which include six (6) hours of foreign language and 15 semester hours general electives.

The Bachelor of Science degree in computer science with mathematics emphasis is for those students who want to combine mathematics and computer science. In addition to the general institutional requirements, the major completes 60 semester hours in major courses which include 33 hours in computer science, 20 hours in mathematics courses, including Calculus II, and Calculus III, 6 semester hours in major electives and 1 hour in general electives.

The Bachelor of Science degree in computer science with business emphasis is for those students who want to combine computer science and business. In addition to the general institutional requirements, the major completes 60 semester hours in major courses, which include 39 hours in computer science and mathematics courses, 12 hours in business courses, 6 semester hours in major electives and 3 semester hours in general electives. The Bachelor of Science degree in computer science with business emphasis is a cooperative program between Albany State University and Albany Technical College that allows qualified students to earn 99 quarter hours at Albany Technical College and then transfer to Albany State University to complete the requirements for the Bachelor of Science degree with emphasis in business. Upon admission to Albany State University students may transfer up to 60 semester hours of credit to Albany State to satisfy Areas A, B, C, D, and E of the Core Curriculum.

All majors must complete a minimum of 126 semester hours. All majors and minors in the department must achieve a grade of "C" or better in all mathematics, science, and computer science and business courses. A cumulative grade point average of at least 2.25 is required for graduation.

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BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE (MATHEMATICS EMPHASIS)

Courses		Titles	Credit Hrs.
CSCI	2101	Intro to Computer Science	3
CSCI	1301	Computer Science I	4
CSCI	1302	Computer Science II	4
MATH	1211	Calculus 1	4
MATH	2411	Basic Statistics	3
Subtotal			18
Major R	equirements		
CSCI	3111	Discrete Structures	3
CSCI	3122	Data Structures	3
CSCI	3211	Computer Organization & Architecture I	3
CSCI	3212	Computer Organization& Architecture II	3
CSCI	4113	Operating Systems	3
CSCI	4123	Computer Networks	3
CSCI	4151	System Simulation	3
CSCI	4221	Software Engineering	3 3
CSCI	4311	Computer Graphics	3
CSCI	4211	Systems Analysis I	3
CSCI	4921	Senior Project I	1
CSCI	4922	Senior Project II	2
MATH	2212	Calculus II	4
MATH	2213	Calculus III	4
MATH	2111	Linear Algebra	3
MATH	3211	Ordinary Differential Equations	3
MATH	3423	Introductions to Operations Research	3
MATH	4215	Numerical Analysis	3
Subtotal			53
Major Ele			6
General E			1
Any cour	ses in the col	llege curriculum	
Subtotal			70
Total Red	quired For C	Graduation	126

PROGRAM OF STUDY FOR THE BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE (MATHEMATICS EMPHASIS)

Total number of hours= 126

Total

Freshman Year						
Fall				Spring		
ENGL	1101	English Comp. I	3	ENGL 1102	English Comp. 11	3
CSCI	1201	Intro to Computer Science	3			
ASU	1200	Service to Leadership	3	MATH 1113	Pre-Calculus	3
MATH	1111	College Algebra	3	MUSC 1100	Music	3
HIST	1111	History I	3	CSCI 1301	Computer Science I	4
	PEDH		1	COMM 1100	Public Speaking	3

16

Sophomor Fall ENGL CSCI MATH HIST PEDH	2111 1302 1211 1002	World Literature I Computer Science II Calculus I Intro to African Diaspora 1	Spring 3 POLS 1101 US & Georgia Govt 4 MATH 2411 Basis Statistics 4 PHYS 2221 Principles of Physis I 2 CSCI 3122 Data Structurs MATH 2212 Calculus II 14	3 3 4 3 4
Junior Ye Fall PHYS CSCI CSCI MATH MATH MATH PEDH Total	2222 3211 3111 3211 2213 2111	Principles of Physics Comp. Org. & Arch. 1 Discrete Structures Differential Equations Calculus III Linear Algebra	Spring 4 HIST 1112 World History II 3 CSCI 4311 Computer Graphics 3 CSCI 4211 System Analsis I 3 CSCI 3212 Comp. Org. & Arch 11 4 3 1	3 3 3 3
Senior Ye Fall CSCI CSCI CSCI CSCI CSCI MATH Major Ele-	4113 4921 4151 4411 4221 3423	Operating Systems Senior Project I Systems Simulation Artificial Intelligence Software Engineering Intro. Operations Research	Spring 3 CSCI 4123 Computer Networks 1 MATH 4215 Numerical Analysis 3 CSCI Major Elective 3 CSCI Major Elective 3 General Electives 16	3 3 3 3 2

BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE (BUSINESS EMPHASIS)

Difference	or or	CELITEE BEGINEE IT COMIT CIENT SCIENCE (BCSITTESS	
Courses	Titles		Credit Hrs.
ACCT	2101	Accounting Principles I	3
CSCI	1201	Introductin to Computer Science	3
CSCI	1301	Computer Science I	3
CSCI	1302	Computer Science II	3
MATH	1211	Calculus I	4
Subtotal			16
Major Requi	irements		
Computer Sci			
CSCÎ	2211	Visual Basic Programming	3
CSCI	3111	Discrete Structures	3
CSCI	3122	Data Structures	3
CSCI	3132	Database Management	3
CSCI	4211	Systems Analysis I	3
CSCI	4212	Systems Analysis II	3
CSCI	4113	Operating Systems	3
CSCI	4123	Computer Networks	3
CSCI	4311	Computer Graphics	3
CSCI	4921	Senior Project I	1
CSCI	4922	Senior Project II	2
Subtotal			30

ATH 2411								Sci. Health Profe	ssions
ATH 2111	//athematic	s Courses					"88		
ATH 2411 Basic Stainsters	ласпешане ЛАТН		Linear Algebra					3	
Second S	//ATH								
Accounting Principles 1	1ATH	3423	Operations Research					3	
200 2106	ubtotal							9	
2106									
Str 13105	CCT		• 1						
Strict S	CON								9
Aging Filestores 12 12 13 15 15 15 15 15 15 15									ā
April Peter Courses 2000 Level or higher		3120	Principles of Marketing						
Computer Science Course Structures Second								12	į
April								6	
The college curriculum									
Second S									
Semistry Semistry			Level of above					3	
Computer Science Computer Sc			urriculum					3	
ROGRAM OF STUDY FOR THE BACHELOR OF SCIENCE DEGREE (COMPUTER SCIENCE (BUSINESS EMPHASIS) Semester Hours	ubtotal	in the contege of						60	
COMPUTER SCIENCE (BUSINESS EMPHASIS)		red For Gradu	ation						
Science Computer Science C	•								
Science Computer Science C									
Science Computer Science C		~	75			~	***		
Semester Hours Sebman Year Fall Spring NGL 1101 English Comp I 3 ENGL 1102 English Comp. II 3 AATH 1111 College Algebra 3 AATH 1113 Precalculus 3 3 SCI 1200 Services to Leadership 3 COM 1100 Public Speaking 3 SCI 1201 Intr to Comp Science 3 CSCI 1301 Computer Science I 4 AMTH 1111 History 3 MUSC 1100 Music 1100 Music	' ROGR	AM OF S 7	TUDY FOR THE B ACH	IEL	OR OF	SCI	ENCE D EGREE		
Semester Hours Sebman Year Fall Spring NGL 1101 English Comp I 3 ENGL 1102 English Comp. II 3 AATH 1111 College Algebra 3 AATH 1113 Precalculus 3 3 SCI 1200 Services to Leadership 3 COM 1100 Public Speaking 3 SCI 1201 Intr to Comp Science 3 CSCI 1301 Computer Science I 4 AMTH 1111 History 3 MUSC 1100 Music 1100 Music	N COM	IDIITED C	CIENCE (RUCINECE L	7 1/2 / 17 17	оп а ст	(2			
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NGL									
AATH 1111				2	ENICI	1100		2	
SU 1200 Services to Leadership 3 COM 1100 Public Speaking 3									
Intro to Comp Science 3									
History I PEDH 1 PEDH 1									
PEDH 1									
Ophomore Year Ophomore Yea	11131	1111			MOSC	1100	iviusic	3	3
Ophomore Year Ophomore Yea	Total		TEBII					16	<u>.</u>
Ophomore Year Ophomore Yea	2000							10	
Ophomore Year Ophomore Yea									₫
MATH 1211 Calculus 4 MATH 2411 Basic Statistics 3	C - 1	*7							7
NGL 2111			Calculus I	1	МАТН	2/11	Racio Statistics	3	
SCI 1302 Computer Science II 4					WIATII	2411	Dasic Statistics	3	
IST 1002									
Accounting I Accounting I Accounting I Accounting I BIOL 1111 Intro to Biological Science 2102 Accounting Principles II 3 POLS 1101 U.S. & Georgia Govt 3 16					CSCI	3122	Data Structures	3	9
POLS 1101 U.S. & Georgia Govt 3 16 16 16 16 16 16 16	ACCT								
POLS 1101 U.S. & Georgia Govt 3 16	ACCT			J	2101				
16 16 16 16 16 16 16 16					POLS				•
SCI 3111	Total			16			-		
SCI 3111									
AATH 2111 Linear Algebra 3 CSCI 4211 System Analysis I 3 3 CSCI 4311 Computer Graphics 3 CSCI 4311 CSCI 4311	Junior Yea								
CSCI 4211 System Analysis I 3 3 5 5 5 5 5 5 5 5	CSCI			3					
Intro to Biological Science 4 CSCI 2211 Visual Basic Programming 3 PEDH 1 Intro to Biological Science 4 CSCI 2211 Visual Basic Programming 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MAIH	2111	Linear Algebra	3	CCCT	4011	Constant Avaluat Y	2	
Intro to Biological Science 4 CSCI 2211 Visual Basic Programming 3 PEDH 1 Intro to Biological Science 4 CSCI 2211 Visual Basic Programming 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CCCI	2122	Databasa Managamani	2					Č
Intro to Biological Science 4 CSCI 2211 Visual Basic Programming 3 PEDH 1 Intro to Biological Science 4 CSCI 2211 Visual Basic Programming 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CSCI	3132	Database Management	3					Ť
Intro to Biological Science 4 CSCI 2211 Visual Basic Programming 3 PEDH 1 Intro to Biological Science 4 CSCI 2211 Visual Basic Programming 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FCON	2105	Macroeconomics	3					č
PEDH 1 16 Penior Year SSCI 4113 Operating Systems 3 CSCI 4123 Computer Networks 3 SSCI 4212 System Analyis II 3 MGM 3120 Principle of Marketing 3 MATH 3423 Intro. to Operations Research 3 MGMT 3105 Legal Environment of Business 3 General Electives 3 SSCI 4921 Senior Project I 1 CSCI 4922 Senior Project II 2							•		ī
enior Year SSCI 4113 Operating Systems 3 CSCI 4123 Computer Networks 3 SSCI 4212 System Analyis II 3 MGM 3120 Principle of Marketing 3 MATH 3423 Intro. to Operations Research 3 MGMT 3105 Legal Environment of Business 3 General Electives 3 SSCI 4921 Senior Project I 1 CSCI 4922 Senior Project II 2	DIOL	1114	muo to biological Science	4	CSCI	221I			
enior Year SSCI 4113 Operating Systems 3 CSCI 4123 Computer Networks 3 SSCI 4212 System Analyis II 3 MGM 3120 Principle of Marketing 3 MATH 3423 Intro. to Operations Research 3 MGMT 3105 Legal Environment of Business 3 General Electives 3 SSCI 4921 Senior Project I 1 CSCI 4922 Senior Project II 2	Total			16			I LDII		
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SSCI 4113 Operating Systems 3 CSCI 4123 Computer Networks 3 SSCI 4212 System Analyis II 3 MGM 3120 Principle of Marketing 3 MATH 3423 Intro. to Operations Research 3 MGMT 3105 Legal Environment of Business 3 General Electives 3 SSCI 4921 Senior Project I 1 CSCI 4922 Senior Project II 2	Senior Vegi	r							
SSCI 4212 System Analyis II 3 MGM 3120 Principle of Marketing 3 MATH 3423 Intro. to Operations Research 3 MGMT 3105 Legal Environment of Business 3 General Electives 3 SSCI 4921 Senior Project I 1 CSCI 4922 Senior Project II 2	CSCI		Operating Systems	3	CSCI	4123	Computer Networks	3	\$
MATH 3423 Intro. to Operations Research 3 MGMT 3105 Legal Environment of Business 3 General Electives 3 SSCI 4921 Senior Project I 1 CSCI 4922 Senior Project II 2	CSCI								
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SCI 4921 Senior Project I 1 CSCI 4922 Senior Project II 2	MGMT						General Electives	3	
	CSCI				CSCI	4922			
2011-2012 Undergraduate Catalog			~				·		
			2011-20	12 U	NDERGR.	ADUATE	CATALOG		

i. Health Profe	ssions			
Major Electiv Total	res	Major Electives	3 3 PEDH 16	1 15
Васнеі	LOR OF	ARTS DEGREE IN MAT	HEMATICS	
Courses	Titles	Credit Hrs.		
MATH	1211	Calculus I		4
MATH	2212	Calculus II		4
MATH	2213	Calculus III		4
MATH	2411	Basic Statistics		3
FREN Subtotal	1101	Elem. French or GRMN 1121 Elen	n German	3 17
Major Requi MATH	irements 2111	Linear Algebra		3
MATH	3101	Introduction to Number Theory		3
MATH	3211	Ordinary Differential Equations		3
MATH	3213	Modern Geometry		3
MATH	3314	Math Statistics		
MATH	3411	Statistical Methods		3 3
MATH	4111	Modern Algebra I		3
MATH	4112	Modern Algebra II		3
MATH	4211	Elem. of Analysis I		3 3 3
MATH	4212	Elem. of Analysis II		3
MATH	4215	Numerical Analysis		3
MATH	4921	Senior Project i		1
MATH	4922	Senior Project II		2
FREN	1102,	Fren or GRMN 1121, Elem. Germa	1	3
Subtotal				39
Major Elec Six hours fi		hematics Courses 3000 or above		6

General Electives Any course from the college curriculum. 15 Subtotal 60 **Total Required for Graduation** 126

PROGRAM OF STUDY FOR THE BACHELOR OF ARTS DEGREE IN MATHEMATICS

125 Semester Hours

Freshman Year Fall Spring

r resilillali rea	ai ran spring							
ENGL	1101	English Comp. I	3	ENGL	1102	English Comp. II		3
MATH	1113	Precalculus	3	MATH	1211	Calculus 1		4
COMM	1100	Analytic Discussion	3	PEDH	Elective		1	
CHEM	1211K	General Chemistry I or	4	CHEM	1212K	General Chemistry II		4
ASU	1200	Fresh, Sem. & Serv. to Lead.	3	POLS	1101	U.S. & GA Government		2
	1200	riesii. Seiii. & Sei v. to Leau.	16	IOLS	1101	U.S. & GA GOVERNMENT		15
Total Hours			16					15

Sophomore	Year							
ENGL	2111	World Lit. I	3	MATH	2213	Calculus III		4
MATH	2212	Calculus II	4	Hum./Fine A	arts Elective			3
Social Science	ce Elective		3	MATH	2111	Linear Algebra		3
				Social Scien	ce Elective	-		3
MATH	2411	Basic Statistics	3	PEDH		Elective		1
General Elec	tive		3	HIST	1002	Intro. to African Diaspora		2
Total Hours			16			•		16
Junior Year								
MATH	3213	Modern Geometry	3	MATH	4112	Modern Algebra II		3
MATH	3211	Ordinary Diff. Equa.	3	MATH	3101	Intro to Number Theory		3
MATH	4111	Modern Algebra Î	3	FREN or GI	RMN II	•		3
				MATH 3314	4	Math Statistics	3	
FREN	1101 OR GR	MN 1121	3	Social Science	ce Elective		5	3
General Elec	tive	3						
PEDH		Activity 1						
Total Hours		•	16					15
Senior Year								
MATH	4211	Elements of Analysis I	3	MATH	4212	Elements		
Analysis II	3							
MATH		Elective	3	MATH	4215	Numeric Analysis		3
MATH		Elective	3					
General Elec	etives		6					
MATH	49	21Senior Project	1	MATH	4922	Senior Project II		2
	17.	21Bellio1110icet		Math	3411	Statistical Methods	3	
						General Electives	3	
					Social	Science Electives	3	
Total Hours			16					17