TOTAL PROGRAM REQUIREMENTS = 127 CREDITS	**COMPETENCIES (See right column for further details.)**							**REQUIREMENTS (See right column for further details.)**					
I.MAJOR AND FORENSIC SCIENCE TRACK: 70 + 12 =82 credits: When there are course options, some courses will fulfill competencies and/or requirements. Consult the Schedules of Course Offerings for details.	**AJ**	**CR**	**CS**	**CC**	**CT**	**IT**	**ME**	**LC**	**QL**	**RP**	**SL**	**UD**	**WI**
Major: Required Courses (30 credits) + Science Electives (40 credits)=70:													
• **Select 1:** BCH317 BioOrganic Chemistry (3); CHE301* Organic Chemistry I (3) *preferred													
• BIO109/L-110/L General Biology I (4/4)					X								
• CHE110/L -111/lLChemistry I (4/4)													
• CHE337/L Forensic Chemistry (3/1)													
• NSC131 Natural Science: Introduction to Scientific Literacy (1)													
• NSC231 Natural Science: Literacy in Science Seminar(2)													
• PHY125/L Forensic Physics (3/1)													
• **Science Electives:** 40 credits to be selected from the following, selected in consultation with one's Advisor. Bear in mind that many of the courses are offered in alternate years and have prerequisites. Labs may be optional for some courses, i.e., credit listed as 3/1. **BCH313/L** Gen Biochemistry (3/1); **BCH401** Biological Organic Chemistry (3); **BIO303/L** Plant Biology (4); **BIO315/L** Gen Microbiology (3/1); **BIO330/L** General Anatomy (4); **BIO/FOR334/L** Forensic Entomology (4); **BIO340/L** General Physiology (4); **BIO406/L** Genetics (3/1); **BIO417** Immunology (3); **BIO/BCH440/L** Molecular Biology (3/1); **CHE301L** Organic Chemistry I Lab (1); **CHE302/L** Organic Chemistry II (3/1); **CHE309** Chemistry III (3); **CHE311/L** Contemporary Chemical Analysis (4); **CHE312/L** Modern Instrumental Analysis (4); **ENS/NSC303** Environmental Toxicology (3); **NSC** Research Problems (3) – topics vary													
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Specialization (12 credits):			X										X
• FOR101 Introduction to Forensic Science (3)													
• **Select 1:** NSC310 Biostatistics (3); PSY211 Statistics for Psychology & Social Sciences (3)					X								
• GVT117 Introduction to Criminal Justice (3)				X									
• PSY223 Forensic Psychology (3)					X								
II. CORE CURRICULUM: 45 credits:													
►**All courses taken at Daemen must have a competency.** ►Only Core Electives may be fulfilled with transfer courses.													
►9 credits must be in upper division (UD) (UD=courses with 300/400 number). ►A maximum of 6 credits of SL may be counted in the core.													
►**No courses in** the major/specialization **(Section # I above) are allowed.** (Science courses determined by the NSC Chair to be non-major courses are allowed.)													
► If LC includes a course in the major, this is OK but credit for the course will count in the major and **not in the core.**													
1. Required Courses: 15 credits:			X										X
• CMP101 English Composition (3)													
• **Select 1:** CMP311 Advanced English Composition (3); CMP315 Advanced Composition for Health Professionals (3)			X									X	X
• IND101 Sustainable & Critical Relationships (3)													
• **Select 1:** MTH134 Pre-Calculus (3); MTH144 Calculus & Analytic Geometry I (3)					X				X				
• PSY103 Introduction to Psychology (3)				X									
2. Core Electives: 30 credits:													
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STATUS OF COMPLETION OF COMPETENCIES/REQUIREMENTS:			X	X	X				X			3 of 9	9of9

CHECKLIST ON COMPLETION OF PROGRAM REQUIREMENTS:

PROGRAM SUMMARY: On the left is a summary of requirements of this program. Columns are provided to track completion of requirements. An "X" in a column indicates that the course meets a competency, and/or results in credit towards fulfillment of another requirement. Use the columns at left or the checklist below to track progress on completion of the program.

REQUIREMENTS:STUDENTS MUST COMPLETE ALL OF THE FOLLOWING:

PLEASE NOTE:

- **Competencies and all other requirements may be satisfied anywhere in the student's program**
- **Courses may fulfill more than 1 requirement (Example CMP101 satisfies the CS competency AND 3 credits towards the WI requirement.)**
- **Other than the Upper Division core requirement, no transfer courses will satisfy requirements unless approved in writing by the Core Director.**

1. COMPETENCIES:

No transfer courses (other than those = to CMP101) will satisfy competencies.

3 credits in each of the competencies is required:

- **AJ:** Affective Judgment
- **CR**: Civic Responsibility
- **CS:** Communication Skills
- **CC:** Contextual Competency
- **CT:** Critical Thinking/Problem Solving
- **IT:** Literacy in Info/Multi-Media Tech
- **ME:** Moral & Ethical Discernment

2. LEARNING COMMUNITIES (LC): A LC is normally comprised of 2 courses with a common theme. 2 LC's must be completed. If a LC includes a course in the major, this is OK but credit for the course will count in the major and **not in the core.**

- LC1: _____
- LC2: _____

3. QUANTITATIVE LITERACY (QL): 3 credits

- 3 credits: **:** MTH134 Pre-Calculus **OR** MTH144 Calculus & Analytic Geometry I

4. RESEARCH/PRESENTATION (RP): minimum of 3 credits:

- 3 credits: _____

Note: If CMP311 is taken, this will meet the Research/Presentation requirement.

5. SERVICE LEARNING (SL): 3 credits: SL may be satisfied with 1 or multiple courses or SL add-ons:

- 3 credits**:** _____

6. UPPER DIVISION IN THE CORE: 9 of the credits counted under the Core Curriculum section of this plan must be courses at the 300 and/or 400 level.

7. WRITING INTENSIVE (WI): 9 credits:

- 3 credits: CMP101 English Composition
- 3 credits: FOR101 Introduction to Forensic Science
- 3 credits: CMP311 Advanced English Composition **OR** CMP315 Advanced Composition for Health Professionals

COMMENTS:

BACHELOR OF SCIENCE - NATURAL SCIENCE
FORENSIC SCIENCE SPECIALIZATION

Following is a ***suggested*** course sequence for your program. Courses may be offered as indicated and/or at other times. Consult your Advisor for further direction and planning.

N.B.: Since course credits vary for science courses, some semesters reflect a range of credits to be taken in that semester.

YEAR 1

FIRST SEMESTER		SECOND SEMESTER	
Cccc,mnbv0063zxcvbnm./LEARNING COMMUNITIES are generally completed in the first year (LC1 in the 1st semester; LC2 in the 2nd semester)			
BIO109/L General Biology I	4	BIO110/L General Biology II	4
CHE 110/L Chemistry I	4	CHE 111/L Chemistry II	4
CMP101 English Composition	3	**Select 1:** MTH134 Pre-Calculus OR MTH144 Calculus &	
FOR101 Introduction to Forensic Science	3	Analytic Geometry I	3
IND101 Sustainable & Critical Relationships	3	NSC131 Natural Science: Intro to Scientific Literacy	1
		CORE ELECTIVES	6
	17		**18**

YEAR 2

FIRST SEMESTER		SECOND SEMESTER	
BCH317 BioOrganic Chemistry **OR**	3*		
CHE301 Organic Chemistry I lecture			
GVT117 Introduction to Criminal Justice	3		
PSY103 Introduction to Psychology	3*	NSC231 Nat Sci: Lit in Science Seminar (See Program Notes)	2
Science Electives (see page 1 for course options)	7-8*	PHY125/L Forensic Physics	4
CORE ELECTIVES	3	Science Electives (see page 1 for course options)	7-8*
		CORE ELECTIVES	3
	19-20		**16-17**

***PSY103** is prerequisite to the other required psychology courses which are required to be taken in Year 3. CHE301 **(preferred)** or BCH317 are prerequisite to CHE337 Forensic Chemistry which must be taken in Year 3. Therefore, PSY103 and CHE301 or BCH317 should be taken at some point in Year 2.

YEAR 3

FIRST SEMESTER		SECOND SEMESTER	
Select 1: CMP311 Advanced English Composition **OR**		CHE337/L Forensic Chemistry	4
CMP315 Advanced Composition for Health Professionals	3	**Select 1:** NSC310 Biostatistics **OR** PSY211 Statistics for	
PSY223 Forensic Psychology	3	Psychology and Social Sciences	3
Science Electives (see page 1 for course options)	3-4	Science Electives (see page 1 for course options)	7-8
CORE ELECTIVES	3	CORE ELECTIVES	3
	12-13		**17-18**

YEAR 4

FIRST SEMESTER		SECOND SEMESTER	
Science Electives (see page 1 for course options)	8	Science Electives (see page 1 for course options)	8
CORE ELECTIVES	6	CORE ELECTIVES	6
	14		**14**

COURSE LOADS: Maximum of 17 credits allowed for 5 semesters; 2 18-credit hour semesters and 1 20-credit hour semester are allowed at no additional tuition charge. Additional course loads are allowed for students who achieve Dean's list. Consult the catalogue regarding the Dean's List privilege.

REQUIREMENTS FOR ADMISSION TO THE FRESHMAN YEAR:
High school chemistry and mathematics through trigonometry

ADMISSION TO UPPER DIVISION REQUIREMENTS:
A. A completed application with essay must be submitted to the Natural Sciences Department by the date published in the academic calendar.
B. A cumulative grade point average (GPA) of 2.0 earned at the end of the sophomore year.
C. A minimum grade of C earned in lectures and labs as follows: BIO 109-110; CHE 110-111; MTH 134; NSC 131-231 and 6 credit hours of Biology or Chemistry at the 300-level or above.

GRADUATION REQUIREMENTS:
A. A minimum grade of C in all Science courses (including those referenced under the requirements for admission to upper division) and MTH134 or MTH144.
B. An overall grade point average (GPA) of 2.00

PROGRAM NOTES:
PREREQUISITE STUDIES: As in all majors, all prerequisites for courses in the program must be satisfied.

E- 65411 Office of the Registrar (09/07)