

TOTAL PROGRAM REQUIREMENTS: BS (120); DPT (82) = 202 CREDITS BS, NATURAL SCIENCE, Health Science specialization: 120 credits	COMPETENCIES (See right column for further details.)								REQUIREMENTS (See right column for further details.)				
	AJ	CR	CS	CC	CT	IT	ME	LC	QL	RP	SL	UD	WI
I. Required Courses in Sciences and Physical Therapy= 66 credits:													
• BCH317 Bio-Organic Chemistry (3)													
• BIO109/L-110/L General Biology I-II (4/4)					X								
• BIO330/L-340/L General Anatomy; General Physiology (4/4)													
• BIO541/L Neurobiology I (4)													
• CHE110/L-111/L Chemistry I-II (4/4)													
• PHY101/L-102/L Physics I-II (4/4)													
• PT101-201 Freshman/Sophomore Seminar in Physical Therapy (1/1)													
• PT312 Principles of Teaching and Learning (3)										PT312+ CMP315			
• PT504/L-505/L Clinical Functional Anatomy I & II (3/2)													
• PT506/L-507/L Kinesiology & Biomechanics I & II (3/2)													
• PT508/L Physiology of Exercise (3)													
• PT517 Clinical Medicine I (3); PT551 Integrative Sem in Phys Ther I-II (0/0)													
• Natural & Health Science Electives: 6 credits: see last page for options													
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II. CORE CURRICULUM: 45 credits: ▶ All courses taken at Daemen must have a competency. ▶ Only Core Electives may be fulfilled with transfer courses ▶ No courses in the major (Section #1 above) are allowed. ▶ A maximum of 6 credits of SL may be counted in the core. ▶ 9 credits must be in upper division (UD) (UD=courses with 300/400 number). ▶ 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: 27 credits:													
• CMP101 English Composition (3)				X									X
• CMP315 Advanced Composition for Health Professionals (3)				X						CMP315+PT312		X	X
• IND101 Sustainable & Critical Relationships (3)													
• MTH134 Pre-Calculus (3)						X				X			
• PSY103 Introduction to Psychology (3)					X								
• 12 credits: 6 credits in each of 2 areas of the Humanities and Social Sciences (See last page-Program Notes, for details). Courses count as core only if they have a competency. If course does not have competency, it: ▶ will fulfill the particular requirement but will count under the Free Elective category (#IV) ▶ an equal number of credits in Core Electives must be taken for each course which does not have a competency													
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2. Core Electives: 18 credits: (See note at right for information on course selection.) Recommended: NSC310 Biostatistics (3)													
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III. FREE ELECTIVES: 9 credits: (See note at right for information on course selection.) ▶ Courses used to fulfill the free electives may have a competency but they are not required to have a competency. ▶ A maximum of 6 credits may be taken in science courses.													
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BS: TOTAL CREDITS COMPLETED TO-DATE (OF 120)													
DPT STUDIES: 82 credits: Some courses will be taken concurrently with BS studies.													
• BIO542/L Neurobiology II(4); PSY530 Psych of Health & Disability (3)													
• PT501 Applied Biostatistics (3); PT509/L Princ & Appl of Physical Agents(4)													
• PT514/L-515/L Muscstkl Rehab I-II(5/5); PT516 Clin PrSolv Musc Reh(2)													
• PT521/L Prosthetics & Orthotics (2); PT532 Motor Cntrl & Motor Learn (2)													
• PT539/L Cardiopul Rehab (2); PT544/L-545/L Neuromusc Rehab I-II (4/4)													
• PT546-549 Clinical Medicine II-III(3/2); PT548 Integumentary Care (3)													
• PT551 Integ Sem in Phys Ther III-IV (0); PT651 Integ Sem in Phys Ther V (0)													
• PT553 Intro to Clin Research Design (1); PT554-555 Clin Research I-II (2/2)													
• PT563-564-565-566-567 Clinical I Exposure I-V (1/1/1/1/1)													
• PT575 Pre-Clin Sem(1); PT577-582-680-690 Clin Intrnsh I-II-III-IV (3/3/4/4)													
• PT600 Clin Prob Solving in Neuromuscular Rehabilitation (2); PT606/L Rehabilitation of the Patient with Spinal Cord Injury (1)													
• PT610 Management & Administrative Issues in Physical Therapy (4)													
• PT612 Prevention, Health Promotion, Fitness & Wellness (2)													
STATUS OF COMPLETION OF COMPETENCIES/REQUIREMENTS:			X	X	X				X	X		3of9	6of9

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:
<ul style="list-style-type: none"> 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 and Creative Problem Solving
▶ IT: Literacy in Information & Multi-Media Technology
▶ 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.
<ul style="list-style-type: none"> LC1: _____ LC2: _____
3. QUANTITATIVE LITERACY (QL): 3 credits
<ul style="list-style-type: none"> 3 credits: MTH134 Pre-Calculus
4. RESEARCH/PRESENTATION (RP):
<ul style="list-style-type: none"> 6 credits: CMP315 Advanced Composition for Health Professionals AND PT312 Principles of Teaching and Learning
5. SERVICE LEARNING (SL): 3 credits: SL may be satisfied with 1 or multiple courses or SL add-ons:
<ul style="list-style-type: none"> 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.
3 credits: CMP315 Advanced Composition-Health Professionals
3 credits: _____
7. WRITING INTENSIVE (WI): 9 credits:
<ul style="list-style-type: none"> 3 credits: CMP101 English Composition 3 credits: CMP315 Advanced Composition for Health Professionals 3 credits: _____
ATTN: SELECTING ELECTIVES:
Some courses have overlapping content and therefore credit for only one course in each of the following pairs may be counted as a required or elective health science course: HCS301 and PT508; HCS317 and PT504 and/or PT505; HCS317 and PT506 and/or PT507; HCS320 and PT517.
COMMENTS:

BS, NATURAL SCIENCE, HEALTH SCIENCE SPECIALIZATION, BIOLOGY MINOR: DPT, PHYSICAL THERAPY
 (Bear in mind that the DPT may be coupled with other Baccalaureate programs. Consult the Physical Therapy Chair for further information.)

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.

YEAR 1

FIRST SEMESTER		SECOND SEMESTER	
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
CMP101 English Composition	3	PT101 Freshman Seminar in Physical Therapy*	1
IND101 Sustainable & Critical Relationships	3	Humanities & Social Sciences (See Program Notes)	6
MTH134 Pre-Calculus	3	CORE ELECTIVES	6
PT101 Freshman Seminar in PT*	1		
CORE ELECTIVES	3		
	16-17*		16-17*

* **PT101 Freshman Seminar in Physical Therapy:** PT101 may be taken in either the 1st or 2nd semester of Year 1. Therefore, the first year will consist of one 16 and one 17 credit-hour semester.

YEAR 2

FIRST SEMESTER		SECOND SEMESTER	
CHE110/L Chemistry I	4	CHE111/L Chemistry II	4
PHY101/L Physics I	4	PHY102/L Physics II	4
PSY103 Introduction to Psychology	3	PT201 Sophomore Seminar in Physical Therapy*	1
PT201 Sophomore Seminar in Physical Therapy*	1	Nat Sci/Hlth Sci elective (See last page-Program Notes-for course options)	3
Nat Sci/Hlth Sci elective (See last page-Program Notes-for course options)	3	CORE ELECTIVES AND/OR FREE ELECTIVES	6
CORE ELECTIVES AND/OR FREE ELECTIVES	3		
	17-18*		17-18*

* **PT201 Sophomore Seminar in Physical Therapy:** PT201 may be taken in either the 1st or 2nd semester of Year 2. Therefore, Year 2 will consist of one 17 and one 18 credit-hour semester.

YEAR 3

FIRST SEMESTER		SECOND SEMESTER	
BCH317 Bio-Organic Chemistry Lecture	3	BIO340/L General Physiology	4
BIO330/L General Anatomy	4	PT312 Principles of Teaching & Learning	3
CMP315 Advanced Composition for Health Professionals	3	Humanities & Social Sciences (See Program Notes)	3
Humanities & Social Sciences (See Program Notes)	3	CORE ELECTIVES AND/OR FREE ELECTIVES	6
CORE ELECTIVES AND/OR FREE ELECTIVES	3		
	16		16

YEAR 4

FIRST SEMESTER		SECOND SEMESTER	
PT504/L Clinical Functional Anatomy I	3	BIO541/L Neurobiology I	4
PT506/L Kinesiology & Biomechanics I	3	PT505/L Clinical Functional Anatomy II	2
PT508/L Physiology of Exercise	3	PT507/L Kinesiology & Biomechanics II	2
PT514/L Musculoskeletal Rehabilitation I	5	PT509/L Principles & Applications of Physical Agents	4
PT517 Clinical Medicine I*	2 (of 3)	PT515/L Musculoskeletal Rehabilitation II	5
PT551 Integrative Seminar in Physical Therapy I	0	PT517 Clinical Medicine I*	1 (of 3)
PT563 Clinical Exposure I (Musculoskeletal I)	1	PT551 Integrative Seminar in Physical Therapy II	0
PT575 Pre-Clinical Seminar	1	PT564 Clinical Exposure II (Musculoskeletal II)	1
	18		19

* **PT517 Clinical Medicine I:** PT517 Clinical Medicine I is to be completed in two semesters: semester 1=2 credits; semester 2= 1 credit, for a total of 3 credits.

SUMMER BETWEEN YEARS 4 AND 5
PT577 Clinical Internship (3)

YEAR 5

FIRST SEMESTER	SECOND SEMESTER
BIO542/L Neurobiology II 4	PSY530 Psychology of Health and Disability 3
PT516 Clinical Problem Solving in Musculoskeletal Rehabilitation 2	PT501 Applied Biostatistics 3
PT532 Motor Control & Motor Learning 2	PT521/L Prosthetics & Orthotics 2
PT544/L Neuromuscular Rehabilitation I 4	PT545/L Neuromuscular Rehabilitation II 4
PT546 Clinical Medicine II 3	PT551 Integrative Seminar in Physical Therapy IV 0
PT551 Integrative Seminar in Physical Therapy III 0	PT554 Clinical Research I 2
PT553 Introduction to Clinical Research Design 1	PT566 Clinical Exposure IV (Neuromuscular II/Prosthetics & Orthotics) 1
PT565 Clinical Exposure III (Neuromuscular I) 1	
17	15

SUMMER BETWEEN YEARS 5 AND 6
PT582 Clinical Internship II (3)

YEAR 6

FIRST SEMESTER	SECOND SEMESTER
PT539/L Cardiopulmonary Rehabilitation 2	PT680 Clinical Internship III 4
PT548 Integumentary Care 3	PT690 Clinical Internship IV 4
PT549 Clinical Medicine III 2	
PT555 Clinical Research II 2	
PT567 Clinical Exposure V (Cardiopulmonary/Integumentary) 1	
PT600 Clinical Problem Solving in Neuromuscular Rehabilitation 2	
PT606/L Rehabilitation in the Patient with Spinal Cord Injury 1	
PT610 Management & Administrative Issues in Physical Therapy 4	
PT612 Prevention, Health Promotion, Fitness & Wellness 2	
PT651 Integrative Seminar in Physical Therapy V 0	
19	8

BS, NATURAL SCIENCE (HEALTH SCIENCE SPECIALIZATION) PORTION OF PROGRAM = 120 CREDITS; DPT PORTION OF PROGRAM = 82 CREDITS; TOTAL FOR BS/DPT PROGRAM = 202 CREDITS

COURSE LOADS: _Years 1 through 4 (Undergraduate): Undergraduate tuition rates apply. Maximum of 17 credits allowed for 5 semesters; 2 18-credit hour and 1 19-credit hour semesters are allowed at no additional tuition charge. Additional course loads are allowed for undergraduate students who achieve Dean's List. Consult the catalogue for details on the Dean's List privilege. **Summer between Years 4 & 5 through Year 6 (Graduate):** Graduate tuition rates apply. Summer course work is subject to additional tuition charges. Consult the Office of Student Accounts for further information.

REQUIREMENTS FOR PROGRESSION AND CONTINUANCE IN THE PROFESSIONAL PHASE OF THE PROGRAM: Consult the Physical Therapy Department

GRADUATION REQUIREMENTS: Satisfactory completion of all requirements as per the terms set forth by the Physical Therapy Department

PROGRAM NOTES:

A. HUMANITIES AND SOCIAL SCIENCE REQUIREMENTS: In order to assure sufficient breadth and depth of understanding of a liberal arts education, **students will complete a minimum of 6 credits of studies in at least two areas in humanities and social sciences in addition to composition studies.** Therefore, a student must complete 4 courses (12 credits) total in Humanities/Social Sciences: 2 courses taken in one designated area of Humanities/Social Sciences, and 2 courses taken in another designated area in Humanities/Social Sciences (Example: 2 courses taken in History [HIS], and 2 courses taken in Psychology [PSY]). **Humanities/Social Science course designations are: Foreign Languages (FRE; SPA), Government (GVT), History (HIS), Humanities (HUM), Literature (LIT), Philosophy (PHI), Psychology (PSY), Religious Studies (REL), Sociology (SOC).**

B. PREREQUISITE STUDIES: As in all majors, all prerequisites for courses in the program must be satisfied. In particular, depending upon Math background, a student may be required to complete lower level Math courses as prerequisite to the required MTH134.

D. NATURAL SCIENCE OR HEALTH SCIENCE ELECTIVES: 6 CREDITS OF APPROVED Natural Science or Health Science (other than Physical Therapy courses) must be completed with a **minimum grade of C required.** Select courses from those listed below. Note that some of these courses have prerequisites. Consult the College Catalogue or Schedule of Course Offerings for a listing of prerequisites for each course. Labs may be optional for some courses, i.e., those with credit indicated as: (3/1).

BCH313/L General Biochemistry (3/1)	BIO335/L Animal Behavior (4)	ENS206 Planet Earth II: Geographical Features (3)
BIO247/347/447 Selected Topics (3-4)	BIO406/L Genetics (3/1)	ENS/NSC303 Environmental Toxicology (3)
BIO302/L General Ecology (3/1)	BIO417 Immunology (3)	ENS304/L Environmental Chemistry (3/1)
BIO303/L Plant Biology (4)	BIO/BCH440/L Molecular Biology (3/1)	ENS309 Population Dynamics (3)
BIO304 Conservation Biology (3)	CHE301/L Organic Chemistry I (4)	NSC310 Biostatistics (3)
BIO307/L Evolutionary Biology (4)	CHE302/L Organic Chemistry II (4)	NSC331 Natural Science Literature Survey (2)
BIO315/L General Microbiology (3/1)	CHE303/L Introduction to Physical Chemistry (4)	NSC4_ Natural Science Research Problems (3)
BIO322/L Invertebrate Biology (4)	CHE304/L Advanced Topics in Physical Chemistry (4)	NSC442 Biomaterials (3)
BIO323/L Animal Biology (4)	CHE311/L Contemporary Chemical Analysis (4)	NSC443 Natural Science Research Seminar (2)
BIO324/L Vertebrate Biology (4)	CHE312/L Modern Instrumental Analysis (4)	PAS302 Clinical Microbiology/Immunology (3)
BIO325 Cell Biology (3)	CHE447 Selected Topics (3-4)	
BIO333/L Developmental Biology (4)	ENS205 Planet Earth I: Physical Features (3)	

F. OTHER PERTINENT INFORMATION:

- The Biology minor is earned as part of the BS, Natural Science major, Health Science specialization.
- Prior to the start of the Professional phase (Year 4) of the program, all course work referenced in the first 3 years must be completed in-full