Biomedical Sciences PreDental

Major Code BI12

CIP Code: 260102 Cr Hrs General Education CORE 42 Requirements 42* 32 Area 1A Social & Behavioral Sciences 6 3 Area 1B Civics Engagement 6 Area 2A Written Communication 3 Area 2B Oral Communication Area 3A Natural Science Non-Lab (BIO 108 or CHEM 140) Area 3B Natural science With Lab (PHYS 160) Area 4 Mathematics (MATH 140 or 150) 6 Area 5A Humanities 3 Area 5B Fine Arts 3 Area 5C **Global Competencies** 2 Area 5D Health and Wellness UE 100 University Experience** 1 70-71 Required Courses - Biomedical Sciences Core Principles of Biology I **BIO 108** 3 1 **BIO 109** Principles of Biology I Lab Principles of Biology II 4 BIO 111 BIO 201 Human Anatomy OR BIO 331 Comparative Vertebrate Anatomy 5 4 BIO 210 Molecular Cell Biology 5 **BIO 231** General and Medical Microbiology **BIO 301** Human Physiology 4 4 **BIO 305** Genetics **BIO 389** Fund. Of Experimental Design & Statistics 3 1 BIO 400 Biology Capstone MATH 130/135 Alegbra & Trig OR MATH 150 Calculus w/Analytic Ge 5-6 3 CHEM 140 General Chemistry I 2 **CHEM 141** General Chemistry I Lab 5 **CHEM 142** General Chemistry II 5 **CHEM 301** Organic Chemistry I 5 **CHEM 302** Organic Chemistry II 3 **CHEM 350** Biochemistry I PHYS 160 4 Elementary College Physics I With Lab **PHYS 162** Elementary College Physics II 4 **Electives** see below for options (200 level or above) BIO 11 See list for applicable courses 5-6 **Electives** Must include at 39 upper division (300-400) hrs 120

Total Hours

^{*}Required courses in Biology, Chemistry/Physics and Math satisfy Gen Ed Core 42 Areas 3A,3B,4 (10 hours)

^{**}Degree Reguirement H (UE 100), may also be met by HNRS 101 (2 credit hours).

[@] MATH 130 plus MATH 135 equals MATH 140

Biomedical Sciences PreMedical/PA

Major Code BI13

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CIP Code: 26		r Hrs
General Educ	ation CORE 42 Requirements 42*	32
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civics Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab (BIO 108 or CHEM 140)	
Area 3B	Natural science With Lab (PHYS 160)	
Area 4	Mathematics (MATH 140 or 150)	
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
UE 100	University Experience**	1
Required Cou	rses - Biomedical Sciences Core 7	0-71
BIO 108	Principles of Biology I	3
BIO 109	Principles of Biology I Lab	1
BIO 111	Principles of Biology II	4
BIO 201 Human A	Anatomy OR BIO 331 Comparative Vertebrate Anatomy	5
BIO 210	Molecular Cell Biology	4
BIO 231	General and Medical Microbiology	5
BIO 301	Human Physiology	4
BIO 305	Genetics	4
BIO 389	Fund. Of Experimental Design & Statistics	3
BIO 400	Biology Capstone	1
MATH 130/135 Alegbra & Trig OR MATH 150 Calculus w/Analytic G		5-6
CHEM 140	General Chemistry I	3
CHEM 141	General Chemistry I Lab	2
CHEM 142	General Chemistry II	5
CHEM 301	Organic Chemistry I	5
CHEM 302	Organic Chemistry II	5
CHEM 350	Biochemistry I	3
PHYS 160	Elementary College Physics I With Lab	4
PHYS 162	Elementary College Physics II	4
BIO	Electives see below for options (200 level or above)	11
See list for applicable courses		
Electives		5-6
Total Hours	Must include at 39 upper division (300-400) hrs	120

^{*}Required courses in Biology, Chemistry/Physics and Math satisfy Gen Ed Core 42 Areas 3A,3B,4 (10 hours)

^{**}Degree Requirement H (UE 100), may also be met by HNRS 101 (2 credit hours).

[@] MATH 130 plus MATH 135 equals MATH 140

Biomedical Sciences PreOptometry

Major Code BI14

CIP Code: 260102 Cr Hrs

Oil Oddc. Zd	0102	11113
General Educ	ation CORE 42 Requirements 42*	32
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civics Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab (BIO 108 or CHEM 140)	
Area 3B	Natural science With Lab (PHYS 160)	
Area 4	Mathematics (MATH 140 or 150)	
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
UE 100	University Experience**	1
•	rses - Biomedical Sciences Core 7	0-71
BIO 108	Principles of Biology I	3
BIO 109	Principles of Biology I Lab	1
BIO 111	Principles of Biology II	4
BIO 201 Human A	natomy OR BIO 331 Comparative Vertebrate Anatomy	5
BIO 210	Molecular Cell Biology	4
BIO 231	General and Medical Microbiology	5
BIO 301	Human Physiology	4
BIO 305	Genetics	4
BIO 389	Fund. Of Experimental Design & Statistics	3
BIO 400	Biology Capstone	1
MATH 130/135	5 Alegbra & Trig OR MATH 150 Calculus w/Analytic G	
CHEM 140	General Chemistry I	3
CHEM 141	General Chemistry I Lab	2 5
CHEM 142	General Chemistry II	5
CHEM 301	Organic Chemistry I	5
CHEM 302	Organic Chemistry II	5
CHEM 350	Biochemistry I	3
PHYS 160	Elementary College Physics I With Lab	4
PHYS 162	Elementary College Physics II	4
BIO	Electives see below for options (200 level or above)	11
See list for applicable courses		
Electives		5-6
Total Hours	Must include at 39 upper division (300-400) hrs	120

^{*}Required courses in Biology, Chemistry/Physics and Math satisfy Gen Ed Core 42 Areas 3A,3B,4 (10 hours)

^{**}Degree Requirement H (UE 100), may also be met by HNRS 101 (2 credit hours).

[@] MATH 130 plus MATH 135 equals MATH 140

Biomedical Sciences PreOptometry

Major Code BI15

CIP Code: 260102 Cr Hrs

Oil Oddc. Z	30102	1113
General Educ	ation CORE 42 Requirements 42*	32
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civics Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab (BIO 108 or CHEM 140)	
Area 3B	Natural science With Lab (PHYS 160)	
Area 4	Mathematics (MATH 140 or 150)	
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
UE 100	University Experience**	1
Required Cou	rses - Biomedical Sciences Core 7	0-71
BIO 108	Principles of Biology I	3
BIO 109	Principles of Biology I Lab	1
BIO 111	Principles of Biology II	4
BIO 201 Human A	Anatomy OR BIO 331 Comparative Vertebrate Anatomy	5
BIO 210	Molecular Cell Biology	4
BIO 231	General and Medical Microbiology	5
BIO 301	Human Physiology	4
BIO 305	Genetics	4
BIO 389	Fund. Of Experimental Design & Statistics	3
BIO 400	Biology Capstone	1
MATH 130/135	5 Alegbra & Trig OR MATH 150 Calculus w/Analytic Go	5-6
CHEM 140	General Chemistry I	3
CHEM 141	General Chemistry I Lab	2 5
CHEM 142	General Chemistry II	5
CHEM 301	Organic Chemistry I	5
CHEM 302	Organic Chemistry II	5
CHEM 350	Biochemistry I	3
PHYS 160	Elementary College Physics I With Lab	4
PHYS 162	Elementary College Physics II	4
BIO	Electives see below for options (200 level or above)	11
See list for app	blicable courses	
Electives		5-6
Total Hours	Must include at 39 upper division (300-400) hrs	120

^{*}Required courses in Biology, Chemistry/Physics and Math satisfy Gen Ed Core 42 Areas 3A,3B,4 (10 hours)

^{**}Degree Requirement H (UE 100), may also be met by HNRS 101 (2 credit hours).

[@] MATH 130 plus MATH 135 equals MATH 140

Biomedical Sciences PreVeterinary

Major Code BI16 Cr Hrs

	,	
CIP Code: 26		r Hrs
General Educ	ation CORE 42 Requirements 42*	32
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civics Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab (BIO 108 or CHEM 140)	
Area 3B	Natural science With Lab (PHYS 160)	
Area 4	Mathematics (MATH 140 or 150)	
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
UE 100	University Experience**	1
Required Cou		0-71
BIO 108	Principles of Biology I	3
BIO 109	Principles of Biology I Lab	1
BIO 111	Principles of Biology II	4
	natomy OR BIO 331 Comparative Vertebrate Anatomy	5
BIO 210	Molecular Cell Biology	4
BIO 231	General and Medical Microbiology	5
BIO 301	Human Physiology	4
BIO 305	Genetics	4
BIO 389	Fund. Of Experimental Design & Statistics	3
BIO 400	Biology Capstone	1
MATH 130/135	5 Alegbra & Trig OR MATH 150 Calculus w/Analytic G	5-6
CHEM 140	General Chemistry I	3 2
CHEM 141	General Chemistry I Lab	2
CHEM 142	General Chemistry II	5
CHEM 301	Organic Chemistry I	5 5
CHEM 302	Organic Chemistry II	5
CHEM 350	Biochemistry I	3
PHYS 160	Elementary College Physics I With Lab	4
PHYS 162	Elementary College Physics II	4
BIO	Electives see below for options (200 level or above)	11
See list for applicable courses		
Electives		5-6
Total Hours	Must include at 39 upper division (300-400) hrs	120

^{*}Required courses in Biology, Chemistry/Physics and Math satisfy Gen Ed Core 42 Areas 3A,3B,4 (10 hours)

^{**}Degree Requirement H (UE 100), may also be met by HNRS 101 (2 credit hours).

[@] MATH 130 plus MATH 135 equals MATH 140