

**Bachelor of Science 2024-25****Biomedical Sciences PreDental****Major Code BI12****CIP Code: 260102**

Cr Hrs

<b>General Education CORE 42 Requirements 42*</b>		<b>32</b>
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 110 or CHEM 151)	
Area 3B	Natural science With Lab (BIO 110 or CHEM 151 orPHYS 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
<b>UE 100</b>	<b>University Experience**</b>	<b>1</b>
<b>Required Courses - Biomedical Sciences Core</b>		<b>70</b>
BIO 110	Principles of Biology I	4
BIO 111	Principles of Biology II	4
BIO 201 Human 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
OR		
BIO 390	Research and Statistical Methods (3)	
BIO 400	Biology Capstone	1
MATH 140 Alegbra & Trig OR MATH 150 Calculus w/Analytic Geome		5
CHEM 151	General Chemistry I	5
CHEM 152	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
<b>BIO</b>	<b>Electives</b> see below for options (200 level or above)	<b>11</b>
See list for applicable courses		
<b>Electives</b>		<b>6</b>
<b>Total Hours</b>	Must include at 39 upper division (300-400) hrs	<b>120</b>

\*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

**Bachelor of Science 2024-25****Biomedical Sciences PreMedical/PA****Major Code BI13****CIP Code: 260102**

Cr Hrs

<b>General Education CORE 42 Requirements 42*</b>		<b>32</b>
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 110 or CHEM 151)	
Area 3B	Natural science With Lab (BIO 110 or CHEM 151 orPHYS 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
<b>UE 100</b>	<b>University Experience**</b>	<b>1</b>
<b>Required Courses - Biomedical Sciences Core</b>		<b>70-71</b>
BIO 110	Principles of Biology I	4
BIO 111	Principles of Biology II	4
BIO 201 Human 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
OR		
BIO 390	Research and Statistical Methods (3)	
BIO 400	Biology Capstone	1
MATH 130/135 Alegbra & Trig OR MATH 150 Calculus w/Analytic Ge		5-6
CHEM 151	General Chemistry I	5
CHEM 152	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
<b>BIO</b>	<b>Electives</b> see below for options (200 level or above)	<b>11</b>
See list for applicable courses		
<b>Electives</b>		<b>5-6</b>
<b>Total Hours</b>	Must include at 39 upper division (300-400) hrs	<b>120</b>

\*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

**Bachelor of Science 2024-25****Biomedical Sciences PreOptometry****Major Code BI14****CIP Code: 260102**

Cr Hrs

<b>General Education CORE 42 Requirements 42*</b>		<b>32</b>
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 110 or CHEM 151)	
Area 3B	Natural science With Lab (BIO 110 or CHEM 151 orPHYS 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
<b>UE 100</b>	<b>University Experience**</b>	<b>1</b>
<b>Required Courses - Biomedical Sciences Core</b>		<b>70-71</b>
BIO 110	Principles of Biology I	4
BIO 111	Principles of Biology II	4
BIO 201 Human 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
OR		
BIO 390	Research and Statistical Methods (3)	
BIO 400	Biology Capstone	1
MATH 130/135 Alegbra & Trig OR MATH 150 Calculus w/Analytic Ge		5-6
CHEM 151	General Chemistry I	5
CHEM 152	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
<b>BIO</b>	<b>Electives</b> see below for options (200 level or above)	<b>11</b>
See list for applicable courses		
<b>Electives</b>		<b>5-6</b>
<b>Total Hours</b>	Must include at 39 upper division (300-400) hrs	<b>120</b>

\*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

**Bachelor of Science 2024-25****Biomedical Sciences PreOptometry****Major Code BI15****CIP Code: 260102**

Cr Hrs

<b>General Education CORE 42 Requirements 42*</b>		<b>32</b>
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 110 or CHEM 151)	
Area 3B	Natural science With Lab (BIO 110 or CHEM 151 orPHYS 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
<b>UE 100</b>	<b>University Experience**</b>	<b>1</b>
<b>Required Courses - Biomedical Sciences Core</b>		<b>70-71</b>
BIO 110	Principles of Biology I	4
BIO 111	Principles of Biology II	4
BIO 201 Human 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
OR		
BIO 390	Research and Statistical Methods (3)	
BIO 400	Biology Capstone	1
MATH 130/135 Alegbra & Trig OR MATH 150 Calculus w/Analytic Ge		5-6
CHEM 151	General Chemistry I	5
CHEM 152	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
<b>BIO</b>	<b>Electives</b> see below for options (200 level or above)	<b>11</b>
See list for applicable courses		
<b>Electives</b>		<b>5-6</b>
<b>Total Hours</b>	Must include at 39 upper division (300-400) hrs	<b>120</b>

\*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

**Bachelor of Science 2024-25****Biomedical Sciences PreVeterinary****Major Code BI16****CIP Code: 260102**

Cr Hrs

<b>General Education CORE 42 Requirements 42*</b>		<b>32</b>
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 110 or CHEM 151)	
Area 3B	Natural science With Lab (BIO 110 or CHEM 151 orPHYS 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
<b>UE 100</b>	<b>University Experience**</b>	<b>1</b>
<b>Required Courses - Biomedical Sciences Core</b>		<b>70-71</b>
BIO 110	Principles of Biology I	4
BIO 111	Principles of Biology II	4
BIO 201 Human 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
OR		
BIO 390	Research and Statistical Methods (3)	
BIO 400	Biology Capstone	1
MATH 130/135 Alegbra & Trig OR MATH 150 Calculus w/Analytic Ge		5-6
CHEM 151	General Chemistry I	5
CHEM 152	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
<b>BIO</b>	<b>Electives</b> see below for options (200 level or above)	<b>11</b>
See list for applicable courses		
<b>Electives</b>		<b>5-6</b>
<b>Total Hours</b>	Must include at 39 upper division (300-400) hrs	<b>120</b>

\*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