

# BACHELOR OF SCIENCE IN BIOLOGY - PRE- PROFESSIONAL (DNIMAS) TRACK

## Summary of Graduation Requirements

Subject Area	Credits
General Education Core ( <a href="https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/">https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/</a> )	40
Major Requirements	47
Electives	6
Other Requirements	27
<b>Total Credit Hours</b>	<b>120</b>

## Curriculum

Course	Title	Credits
<b>First Year</b>		
APS 110	Applied Science Seminar	0
APS 111	Applied Science Seminar	0
BIO 110H & BIO 110L	Honors General Biology and General Biology Laboratory	4
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
BIO 260 & 260L	Integrative Zoology and Integrative Zoology Laboratory	4
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Laboratory	1
CHM 222	General Chemistry II	3
CHM 222L	General Chemistry II Laboratory	1
ENG 101H	Honors College English I	3
ENG 102H	Honors College English II	3
MTH 184H	Honors Calculus I	4
MTH 251H	Honors Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
<b>Credits</b>		<b>33</b>
<b>Second Year</b>		
APS 210	Applied Science Seminar	0
APS 211	Applied Science Seminar	0
BIO 261 & 261L	General Botany and General Botany Laboratory	4
BIO 310 & 310L	General Microbiology and General Microbiology Laboratory	4
CHM 321	Organic Chemistry I	3
CHM 321L	Organic Chemistry I Laboratory	2
CHM 322	Organic Chemistry II	3
CHM 323L	Synthesis and Analysis in Organic Chemistry Laboratory	2
CSC 170	Computer Programming I	3
HED 100	Personal and Community Health	2

ENG 285H	Honors Public Speaking	3
SOC 110	Introduction to Sociology	3
SEM 201	Spartan Seminar 201	1
<b>Credits</b>		<b>30</b>

### Third Year

APS 310	Applied Science Seminar	0
APS 311	Applied Science Seminar	0
BIO 272 & 272L	Human Anatomy and Human Anatomy Laboratory	4
BIO 362 & 362L	Histology and Microtechnique and Histology & Microtechnique Laboratory	4
CHM 431	Biochemistry I	3
CHM 431L	Biochemistry I Laboratory	2
CHM 432	Biochemistry II	3
CHM 432L	Biochemistry II Laboratory	2
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
CSC 200	Advanced Computer Concepts	3
<b>Credits</b>		<b>31</b>

### Fourth Year

APS 410	Applied Science Seminar	0
BIO 351 & 351L	Principles of Genetics and Principles of Genetics Laboratory	4
BIO 364	Seminar and Colloquium in Biology	1
BIO 459	General Physiology	3
BIO 474 & 474L	Molecular Biology and Molecular Biology Laboratory	5
BIO 495	Biostatistics	3
APS 411	Applied Science Seminar	0
ENG 203 or ENG 303	Advanced Communication Skills or Professional & Technical Writing	3
XXX XXX	Humanities Elective	3
FIA 201	Basic Art Appreciation	
MUS 301	Music Appreciation	
ENG 207	Introduction to World Literature	
HUM 210	Humanities	
HUM 211	Humanities	
Select one BIO XXX Elective:		4
BIO 263 & 263L	Vertebrate Embryology and Vertebrate Embryology Lab	
BIO 278 & 278L	Cell Biology and Cell Biology Laboratory	
<b>Credits</b>		<b>26</b>
<b>Total Credits</b>		<b>120</b>

All Biology courses with the exception of BIO 459 General Physiology and BIO 495 Biostatistics require both lecture (3 credits) and lab (1 credit).