BISMARCK STATE COLLEGE | **North Dakota's Polytechnic Institution**

INTELLIGENT MACHINE LEARNING

Bachelor of Applied Science
Checklist

- Review the Program Admission requirements.
- View the General Education Matrix for a complete list of qualifying courses.
- Fulfill the College Degree Requirements in conjunction with this degree plan.
- Consult an Academic Advisor to ensure all academic requirements are met.

Summary

Foundation	41
Major	32
General Education	36
Digital Literacy	
Electives	11
Total Credits	**120**

Degree Plan
Foundation

CIS 185	Introduction to Programming	3
CIS 197	Cooperative Education/Internship	3
CIS 204	Database Design and Structured Query Language (SQL)	3
CSCI 160	Computer Science I	4
CSCI 161	Computer Science II	4
MATH 104	Finite Mathematics	3
MATH 146	Applied Calculus I	3
AI 100	Introduction to Artificial Intelligence	3
AI 110	Introduction to Machine Learning	3
AI 210	Introduction to Natural Language Processing	3
AI 220	Introduction to Computer Vision	3
AI 230	Artificial Intelligence for Business Solutions	3
AI 240	Artificial Intelligence Capstone Project	3
Total Credits		**41**

Major

AI 300	Artificial Intelligence	3
AI 310	Machine Learning	3
AI 360	Computational Methods for AI & ML	3
AI 340	IML Capstone Project I	1
AI 410	Natural Language Processing	3
AI 420	Computer Vision	3
AI 450	Deep Learning	3
AI 460	AI Ethics	3
AI 470	Generative AI	3
AI 440	IML Capstone Project II	1
AI 397	Cooperative Education/Internship	3
AI 497	Cooperative Education/Internship	3
Total Credits		**32**

General Education
Written Communications

ENGL 110	College Composition I	3
Select one of the following:		3
ENGL 120	College Composition II	
ENGL 125	Introduction to Professional Writing	
Credits Subtotal		**6**

Oral Communications

COMM 110	Fundamentals of Public Speaking	3
Credits Subtotal		**3**

Arts & Humanities

CIS 280	Cyber Ethics	3
Select 3 credits from the "Arts & Humanities" categories on the General Education matrix.		3
Credits Subtotal		**6**

Social & Behavioral Sciences

Select 6 credits from the "Social & Behavior Sciences" category on the General Education matrix.		6
Credits Subtotal		**6**

Business, Math, Science & Technology

MATH 210	Elementary Statistics	3
CIS 147	Principles of Information Security	3
Select 9 credits from the "Business, Math, Science and Technology" categories on the General Education matrix.		9
Credits Subtotal		**15**

General Education Total Credits	**36**

Digital Literacy

Select one of the following:		
ENGL 110	College Composition I	
NDUS Institution Approved Training Course		
NDUS Institution Designated Digital Literacy Course		

Electives
Open Electives

Any course(s) not used to additionally fulfill a requirement on this degree plan.	11
Total Credits	**11**