

**Northland Pioneer College**  
**ASSOCIATE OF APPLIED SCIENCE (AAS)**  
**INDUSTRIAL MAINTENANCE & OPERATIONS - Instrumentation**  
**2013-2014 Catalog Year**  
*NPC Advising Check Sheet*

<b>Student Name:</b>	<b>Student ID:</b>
<b>Adviser Name:</b>	<b>Date:</b>

<b>GENERAL EDUCATION REQUIREMENTS (19 CRS)</b>															
				CRS	GR	SEM					CRS	GR	SEM		
<b>COMMUNICATIONS (6 CRS)</b>						<b>PHYSICAL &amp; BIOLOGICAL SCIENCES (4 CRS)</b>									
ENL 101				3			Any one course from the AAS Discipline Studies list of Physical & Biological Sciences ( <b>see next page</b> )				4				
<i>Plus one of the following:</i>															
ENL 102				3											
<b>OR</b>															
ENL 109				3			<b>ARTS &amp; HUMANITIES (3 CRS)</b>								
<b>MATHEMATICS (3 CRS)</b>						Any one course from the AAS Discipline Studies list of Arts & Humanities courses ( <b>see next page</b> )						3			
MAT 101				3											
<b>OR</b>															
MAT 109				3											
<b>OR</b>						<b>COMPUTER SCIENCE (3 CRS)</b>									
Any Mathematics course for which MAT 109 is a prerequisite				3			CIS 105				3				

<b>CORE REQUIREMENTS (28 CRS)</b>						<b>UNRESTRICTED ELECTIVES (2 CRS)</b>							
<b>AREA OF SPECIALIZATION:</b>						Any <b>unduplicated</b> 100 or higher level courses.							
<b>INSTRUMENTATION</b>								CRS	GR	SEM			
				CRS	GR	SEM							
IMO 155				7									
IMO 156				7									
IMO 157				7									
IMO 158				7									

<b>REQUIRED ELECTIVES (15 CRS)</b>				
Student must complete 15 credits from the following list:				
		CRS	GR	SEM
BUS 103		2		
BUS 105		3		
BUS 144		3		
BUS 231		3		
IMO (any unduplicated 100 or higher level courses totaling at least 4 CRS)				

Requires completion of a minimum of 64 credits with a cumulative grade point average of 2.0 on a 4.0 scale.
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**ASSOCIATE OF APPLIED SCIENCE DISCIPLINE STUDIES  
2013-2014 Catalog Year**

**DISCIPLINE STUDIES (see appropriate AAS Check Sheet for credit hour requirements)**

ARTS AND HUMANITIES	PHYSICAL AND BIOLOGICAL SCIENCES	SOCIAL AND BEHAVIORAL SCIENCES
<p><i>Courses must be selected from the following list:</i></p> <p>ART 101 Understanding Art            ART 115 Art History I            ART 116 Art History II            ART 215 Native American Art            ENL 220 World Literature I            ENL 221 World Literature II            ENL 224 English Literature I            ENL 225 English Literature II            ENL 230 American Literature I            ENL 231 American Literature II            HUM 150 Humanities in the Western World I            HUM 151 Humanities in the Western World II            MUS 150 Music Appreciation            MUS 250 World Music            PHL 101 Introduction to Philosophy            PHL 105 Introduction to Ethics            SPT 130 Introduction to Theatre            SPT 150 Introduction to Film            SPT 155 History of Television</p>	<p><i>Courses must be selected from the following list:</i></p> <p>BIO 100 Biology Concepts            BIO 105 Environmental Biology            BIO 160 Introduction to Human Anatomy &amp; Physiology            BIO 181 General Biology I            BIO 182 General Biology II            BIO 201 Human Anatomy and Physiology I            BIO 202 Human Anatomy and Physiology II            CHM 130 Fundamental Chemistry            CHM 151 General Chemistry I            CHM 152 General Chemistry II            GEO 111 Physical Geography            GLG 101 Introduction to Geology I—Physical Geology            GLG 102 Introduction to Geology II—Historical Geology            PHY 113 General Physics I            PHY 114 General Physics II</p>	<p><i>Courses must be selected from the list below. Courses marked with an asterisk (*) meet requirements for Contemporary Global, International or Historical Awareness.</i></p> <p>* ANT 102 Cultural Anthropology            ANT 120 Buried Cities and Lost Tribes            BUS 140 Principles of Economics—Macro            BUS 141 Principles of Economics—Micro            * GEO 110 World Regional Geography            GEO 120 Human Geography            * HIS 105 U.S. History to 1877            * HIS 106 U.S. History Since 1877            * HIS 155 Western Civilization to 1700            * HIS 156 Western Civilization Since 1700            POS 110 American Government            PSY 101 Introduction to Psychology            PSY 200 Psychology of Adjustment            PSY 240 Developmental Psychology            SOC 120 General Sociology            SOC 121 Social Problems in America            SOC 130 Racial, Ethnic and Gender Relations in Modern Society            SOC 225 Sociology of the Family</p>