

Northland Pioneer College
ASSOCIATE OF APPLIED SCIENCE (A.A.S.)
COMPUTER INFORMATION SYSTEMS - Web Development
2012-2013 Catalog Year
NPC Advising Checklist - Minimum of 64-65 Credits

Name:	Student ID:
Advisor Name:	Date:

I. GENERAL EDUCATION REQUIREMENTS (16-17 CRS)				II. DISCIPLINE STUDIES (7 CRS)			
	CRS	GR	SEM		CRS	GR	SEM
COMMUNICATIONS (6 CRS)				PHYSICAL & BIOLOGICAL SCIENCES			
ENL 101	3				4		
ENL 102	3						
<i>OR</i>				ARTS & HUMANITIES			
ENL 109	3				3		
MATHEMATICS (3-4 CRS)				<i>OR</i>			
MAT 112	3						
<i>OR</i>				SOCIAL & BEHAVIORAL SCIENCES			
MAT 121	4				3		

III. CORE REQUIREMENTS (30 CRS)				IV. REQUIRED ELECTIVES (18 CRS)			
AREA OF SPECIALIZATION:				In addition to the area of specialization core requirements, student must complete 18 unduplicated credits from the List of Required Electives.			
COMPUTER INFORMATION SYSTEMS							
	CRS	GR	SEM		CRS	GR	SEM
CIS 105	3						
CIS 111	3						
CIS 150	3						
CIS 187	3						
CIS 243	3						
CIS 250	3						
CIS 265	3						
CIS 275	3						
CIS 280	3						
CIS 295	3						

The Associate of Applied Science (AAS) Degree is designed for specialization in vocational or technical fields and 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 COURSES
2012-2013 Catalog Year**

Specific programs may designate or limit course options. The General Education requirements for certain programs may exceed 16 credit minimum.

COMMUNICATIONS (6 CREDITS)
See specific program requirements

MATHEMATICS (3-4 CREDITS)
See specific program requirements

DISCIPLINE STUDIES (7 CREDITS)--unless otherwise noted in a program description, students must take one course from Physical and Biological Sciences and one course from either Arts and Humanities or Social and Behavioral Sciences.

ARTS AND HUMANITIES

ART 101 Understanding Art
ART 115 Art History I
ART 116 Art History II
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—Western World I
HUM 151 Humanities—Western World II
MUS 150 Music Appreciation
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

PHYSICAL AND BIOLOGICAL SCIENCES

BIO 100 Biology Concepts
BIO 105 Environmental Biology
BIO 160 Intro to Human Anatomy & 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
GLG 102 Introduction to Geology II—Historical
PHY 113 General Physics I
PHY 114 General Physics II

SOCIAL AND BEHAVIORAL SCIENCES

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
SOC 225 Sociology of the Family

COMPUTER INFORMATION SYSTEMS REQUIRED ELECTIVES – In addition to the area of specialization core requirements, student must complete 18 -20 unduplicated credits from the following courses:

AIS 170 Written Business Communications	CIS 119 Page Layout and Design	CIS 200 BASIC Programming
BUS 110 Small Business Management	CIS 125 Effective Communication with Digital Media	CIS 217 Java Programming, Introductory
BUS 112 Fundamentals of Bookkeeping for Business	CIS 141 Managing and Maintaining Your PC I (A+)	CIS 226 Programming in C++
OR	CIS 142 Managing and Maintaining Your PC II (A+)	CIS 243 Database-Driven Web Sites
BUS 117 Principles of Accounting I-Financial	CIS 145 Network+ Certification Preparation	CIS 245 Database Management and Concepts
CIS 103 Introduction to Windows	CIS 150 Digital Culture	CIS 250 Electronic Commerce
CIS 105 Computer Applications and Information Technology	CIS 161 Microsoft Operating System	CIS 265 Web Programming
CIS 111 Introduction to Programming	CIS 168 Web Authoring Tools	CIS 275 Web Server Administration
CIS 113 Multimedia	CIS 171 GNU Linux Operating System	CIS 280 Systems Analysis and Design
CIS 115 Introduction to Graphic Communication Technology	CIS 183 Introduction to Internet	CIS 286 Educational Technology
CIS 116 Computer Photographic Imaging	CIS 187 Introduction to Web Development	CIS 298 Portfolio
CIS 117 Two-Dimensional Computer Design	CIS 198 Internship	CIS 299 Special Projects
CIS 118 Graphics, Interactive and Animated	CIS 199 Workshop	