CITY COLLEGE
MONTANA STATE UNIVERSITY BILLINGS

CYBER SECURITY/NETWORK TECHNOLOGY
ASSOCIATE OF SCIENCE

Advising Worksheet 2024-2025

Name _____

Jacket Student Central
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GENERAL EDUCATION REQUIREMENTS –SEE NEXT PAGE FOR SPECIFIC REQUIREMENTS

General Education Category	Course #	Credits	Grade	Semester	Equivalent
Category I: Global Academic Skills (9 credits) A. Mathematics (3 credits)					
B. English (3 credits)					
C. Communication & Information Literacy (3 credits)					
Category II: Natural Sciences (7 credits) 2 lectures (6 credits) & 1 lab (1 credit) (1 life science & 1 physical science & 1 lab)					
Category III: Social Sciences and History (6 credits) A. Social Science (3 credits)					
B. History (3 credits)					
Category IV: Cultural Diversity (3 credits)					
Category V: Arts & Humanities (6 credits) A. Fine Arts (3 credits)					
B. Humanities (3 credits)					

A minimum grade of "C-" required in all General Education courses.
Note: Certain degrees may require a minimum grade of "C" in General Education courses.

Students should consult with an Academic Advisor before registering for General Education courses.

Updated 05/02/2024

CATEGORY I: GLOBAL ACADEMIC SKILLS — 9 credits

Students are required to take one course from each subcategory

Subcategory A - Mathematics — 3 credits

+M	105	Contemporary Mathematics	3
+M	114	Extended Technical Mathematics	3
+M	121	College Algebra	3
M	122	College Trigonometry	3
M	130	Math for Elementary Teachers I	3
+M	140	College Math for Healthcare	3
+M	143	Finite Mathematics	4
M	161	Survey of Calculus	3
M	171	Calculus I	4
STAT	141	Introduction to Statistical Concepts	3
STAT	216	Introduction to Statistics	4

Subcategory B - English — 3 credits

+WRIT	101	College Writing I	3
+WRIT	121	Introduction to Technical Writing	3
+WRIT	122	Introduction to Business Writing	3

Subcategory C- Communication & Information Literacy — 3 credits

BMIS	150	Computer Literacy	3
+COMX	111	Introduction to Public Speaking	3
+COMX	115	Introduction to Interpersonal Communication	3
COMX	210	Communication in Small Groups	3
HONR	205	Honors Inquiry and Research	3
LSCI	125	Research in the Information Age	3

CATEGORY II: NATURAL SCIENCES — 6 cr. lecture & 1 cr. lab

Students are required to take one course from each subcategory and at least one corresponding lab or Integrated Sciences

Subcategory A – Life Sciences — 3-4 credits

BIOB	101	Discover Biology	3
BIOB	102	Discover Biology Lab	1
BIOB	121	Fundamentals of Biology for Allied Health	3
BIOB	123	Fund of Biology: The Nature of Nutrition	3
BIOB	160	Principles of Living Systems	3
BIOB	161	Principles of Living Systems Lab	1

Subcategory B – Physical Sciences — 3-4 credits

ASTR	110	Introduction to Astronomy	3
ASTR	111	Introduction to Astronomy Lab	1
+CHMY	121	Introduction to General Chemistry	3
+CHMY	122	Introduction to General Chemistry Lab	1
CHMY	141	College Chemistry I	3
CHMY	142	College Chemistry Laboratory I	1
GEO	101	Introduction to Physical Geology	3
GEO	102	Introduction to Physical Geology Laboratory	1
GPHY	262	Spatial Sciences Technology & Applications	3
GPHY	263	Spatial Sciences and Technology Laboratory	1
PHSX	103	Our Physical World	3
PHSX	104	Our Physical World Lab	1
PHSX	205	College Physics I	3
PHSX	206	College Physics I Lab	1

Integrated Sciences

SCIN	101, 102, 103, 104	Integrated Sciences	3, 1, 3, 1

CATEGORY III: SOCIAL SCIENCES AND HISTORY — 6 credits

Students are required to take one course from each subcategory

Subcategory A – Social Sciences — 3 credits

+BGEN	105	Introduction to Business	3
+COMX	106	Communicating in a Dynamic Workplace	3
ECNS	201	Principles of Microeconomics	3
ECNS	202	Principles of Macroeconomics	3
EDU	105	Education and Democracy	3
HTH	110	Personal Health and Wellness	3
PSCI	210	Introduction to American Government	3
PSCI	220	Introduction to Comparative Government	3
+PSYX	100	Introduction to Psychology	3
+SOCI	101	Introduction to Sociology	3
SOCI	201	Social Problems	

Subcategory B - History — 3 credits

HSTA	101	American History I	3
HSTA	102	American History II	3
HSTR	159	World History to 1500 CE	3
HSTR	160	Modern World History	3
PSCI	230	Introduction to International Relations	3

CATEGORY IV: CULTURAL DIVERSITY — *3 credits*

ANTY	220	Culture and Society	3
ARTH	160	Global Visual Culture	3
COMX	212	Introduction to Intercultural Communication	3
GPHY	121	Human Geography	3
HTH	270	Global Health Issues	3
LIT	230	World Literature Survey	3
MUSI	207	World Music	3
NASX	105	Introduction to Native American Studies	3
NASX	205	Native Americans in Contemporary Society	3
REHA	201	Introduction to Diversity in Counseling	3
RLST	170	The Religious Quest	3
SPNS	150	The Hispanic Tradition	3
WGSS	274	Women,Culture and Society	3

CATEGORY V: ARTS & HUMANITIES — 6 credits

Students are required to take one course from each subcategory

Subcategory A – Fine Arts — 3 credits

ARTZ	101	Art Fundamentals (dual enrollment only)	3
ARTZ	105	Visual Language-Drawing	3
ARTZ	106	Visual Language -2D Foundations	3
ARTZ	108	Visual Language – 3D Foundations	3
ARTZ	131	Ceramics for Non-majors	3
CRWR	240	Intro Creative Writing Workshop	3
FILM	160	Introduction to World Cinema	3
LIT	270	Film & Literature	3
MUSI	101	Enjoyment of Music	3
MUSI	114	Band: MSUB Symphonic	1
MUSI	131	Jazz Ensemble I: MSUB	1
MUSI	147	Choral Ensemble: University Chorus	1
PHOT	154	Exploring Digital Photography	3
THTR	101	Introduction to Theatre	3

Subcategory B - Humanities — 3 credits

ARTH	150	Introduction to Art History	3
HONR	111	Perspectives and Understanding	3
LIT	110	Introduction to Literature	3
LIT	213	Montana Literature	3
PHL	110	Introduction to Ethics	3
PHL	111	Philosophies of Life	3
PHL	254	People and Politics	3
Total			**31**

+Denotes a course offered at the City College campus. These courses may not be available every semester

Required Preparatory Courses

Required Courses

CAPP	120	Intro to Computers	3			
CSCI	100	Intro to Programming	3			
ITS	166	Configuring for Windows 10	3			
ITS	212	Network Operating System-Server Admin	3			
ITS	233	Intro to Dev-Ops	3			
ITS	245	Computer Forensics	3			
ITS	246	Cybersecurity Operations	3			
ITS	276	Ethical Hacking & Network Def	3			
NTS	104	CCNA 1: Intro to Networks	3			
NTS	105	CCNA 2: Routing & Switching Essentials	3			

TOTAL MINIMUM CREDITS REQUIRED   61

A grade of "C" (2.0) or higher is mandatory in Required Courses and Restricted Elective

Suggested Plan of Study

First Semester	Credits		Second Semester	Credits
CAPP 120	3		ITS 212	3
CSCI 100	3		NTS 104	3
ITS 166	3		General Education	9
General Education	7		**TOTAL**	**15**
TOTAL	**16**			

Third Semester	Credits		Fourth Semester	Credits
ITS 233	3		ITS 245	3
NTS 105	3		ITS 246	3
General Education	9		ITS 276	3
TOTAL	**15**		General Education	6
			TOTAL	**15**

Categories	Credits	Earned	Remaining
General Education	31	_____	_____
Required Courses	30	_____	_____
Total	61	_____	_____

Transcript evaluation (if applicable completed) by: _____on _____

Updated 5/25/2022

Developing a Plan of Study

To facilitate course planning and scheduling, students should be aware that not all courses are offered every semester. Some courses require pre-requisites and preparatory courses to be successfully completed or co-requisites be taken simultaneously.

Program Specific Information

Students should know the following information:

- This program is based on completing the previous semester. Failure to pass one semester can impact the next.

- This is a program with few online options for the Required Courses. Many of them are 4 or even 5 days per week.

- If a student is particularly interested in the technical coursework, then the AAS Computer Systems Technology degree can be the better option.

	Upon successful completion of this program, students will be able to:
1	Implement and maintain basic network infrastructure equipment and software.
2	Design a work breakdown structure for a basic IT-related project.
3	Perform cybersecurity incident response procedures.
4	Identify and compute the length of the critical path for a given project plan.
5	Explain the purpose of standard security controls when planning a cybersecurity strategy.