



MONTANA STATE UNIVERSITY BILLINGS

FIRE SCIENCE
ASSOCIATE OF SCIENCE

ADVISING WORKSHEET 2013-2014

City College
Jacket Student Central
Phone 406-247-3019
Fax: 406-247-3095

Name _____

Student ID # _____

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)	M 114				
	WRIT 101				
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.

Reviewed:

GENERAL EDUCATION REQUIREMENTS

CATEGORY I: GLOBAL ACADEMIC SKILLS			9 credits
<i>Students are required to take one course from each subcategory</i>			
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	131	Mathematics for Elementary Teachers II	3
+M	143	Finite Mathematics	4
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	201	College Writing II	3
WRIT	220	Business & Professional Writing	3
+WRIT	121	Introduction to Technical Writing	3
+WRIT	122	Introduction to Business Writing	3
WRIT	221	Intermediate Technical Writing	3
Subcategory C - Communication & Information Literacy			3 credits
+COMX	111	Introduction to Public Speaking	3
COMX	115	Introduction to Interpersonal Communication	3
LSCI	125	Research in the Information Age	3
BMIS	150	Computer Literacy	3
CATEGORY II: NATURAL SCIENCES			6 cr. lecture & 1 cr. lab
<i>Students are required to take one course from each subcategory and at least one corresponding lab <u>or</u> SCIN 101, 102, 103 & 104</i>			
Subcategory A – Life Sciences			3-4 credits
BIOB	101	Discover Biology	3
BIOB	102	Discover Biology Lab	1
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	112	Introduction to Physical Geography Lab	1
GPHY	111	Introduction to Physical Geography	3
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
PHSX	105	Fundamentals of Phys Sci	3
PHSX	106	Fundamentals of Phys Sci Lab	1
Subcategories A and B – Integrated Sciences			7 credits
SCIN 101, 102, 103 & 104 Integrated Sciences			3, ½, 3, ½
CATEGORY III: SOCIAL SCIENCES AND HISTORY			6 credits
<i>Students are required to take one course from each subcategory</i>			
Subcategory A – Social Sciences			3 credits
ANTY	217	Physical Anthropology & Archeology	3
+BGEN	105	Introduction to Business	3
+COMX	106	Communicating in a Dynamic Workplace	3
PSYX	231	Human Relations	3
ECNS	201	Principles of Microeconomics	3
ECNS	202	Principles of Macroeconomics	3
EDU	105	Education and Democracy	3
GPHY	141	Geography of World Regions	3
HTH	110	Personal Health and Wellness	3
PSCI	220	Introduction to Comparative Government	3
PSCI	210	Introduction to American Government	3
+PSYX	100	Introduction to Psychology	3
PSYX	231	Human Relations	3
+SOCI	101	Introduction to Sociology	3

SOCI	201	Social Problems	3
Subcategory B - History			3 credits
+HSTA	101	American History I	3
+HSTA	102	American History II	3
HSTR	101	Western Civilization I	3
HSTR	102	Western Civilization II	3
HSTR	103	Honors Western Civilization I	3
HSTR	104	Honors Western Civilization II	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
PHL	271	Philosophy & Religion of India	3
PHL	272	Philosophy & Religion of China/Tibet/Japan	3
REHA	201	Introduction to Diversity	3
RLST	170	The Religious Quest	3
A&SC/			
SOCI/WS	274	Women, Culture, and Society	3
SPNS	150	The Hispanic Tradition	3

CATEGORY V: ARTS & HUMANITIES			6 credits
<i>Students are required to take one course from each subcategory</i>			
Subcategory A – Fine Arts			3 credits
ARTZ	101	Art Fundamentals	3
ARTZ	131	Ceramics for Non-majors	3
ARTZ	105	Visual Language-Drawing	3
CRWR	240	Intro Creative Writing Workshop	3
FILM	160	Introduction to World Cinema	3
LIT	270	Film & Literature	3
+MART	260	Computer Presentation and Animation	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
THTR	101	Introduction to Theatre	3
THTR	120	Introduction to Acting I	3
Subcategory B - Humanities			3 credits
ARTH	150	Introduction to Art History	3
HON	121	Perspectives and Understanding	3
HON	281	The American Intellectual Heritage (1620-1877)	3
HON	282	The American Intellectual Heritage (1877-Present)	3
+LIT	110	Introduction to Literature	3
LIT	240	The Bible as Literature	3
PHL	110	Introduction to Ethics	3
PHL	111	Philosophies of Life	3

Total **31**

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

Course	Credits	Grade	Semester	Equivalent
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Required Preparatory Courses

Required Courses

FIRE	105	Fire Apparatus Equipment and Hydraulics	3			
FIRE	115	Fire Fighter I Essentials	3			
FIRE	130	Fire Service Management and Law	3			
FIRE	180	Incident Command	3			
FIRE	214	Inspection Codes and Practice	3			
FIRE	255	Cause and Origin	2			
FIRE	275	Fire Service Instructor	3			
TRID	160	Hazardous Materials Technician General Training	3			

6 Elective Credits Required- chosen in consultation with an advisor

TOTAL Required & Restricted Elective Courses

29

*Optional Courses

FIRE	172	Wildlands Standards for Survival	3			
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A grade of “C” or higher is mandatory in all required courses.

Suggested Plan of Study

First Semester	Credits	Second Semester	Credits
FIRE 115	3	FIRE 275	3
FIRE 130	3	*FIRE 172	3
General Education	9	General Education	10
TOTAL	15	TOTAL	16

Third Semester	Credits	Fourth Semester	Credits
FIRE 105	3	FIRE 180	3
FIRE 214	3	TRID 160	3
FIRE 255	2	General Education	3
General Education	9	Restricted Elective	6
TOTAL	17	TOTAL	15

*optional

Categories	Credits	Earned	Remaining
General Education	31	_____	_____
Required Courses	23	_____	_____
Restricted Electives	6	_____	_____
Total	60	_____	_____

General Information:

Students pursuing an Associate of Science in Fire Science will refer to the general catalog for academic policies.

Transfer credits from other institutions – Students who wish to graduate with an Associate of Science in Fire Science must earn a minimum of 20 credits at MSU-Billings with a GPA of 2.00 or higher. Refer to the general catalog for details.

Prior Learning Assessment – Students may have already earned credit through work-site training or government-sponsored workshops or military experience. Certificates or documentation which state that the American Council on Education (ACE) or the National Program on Non-Collegiate Sponsored Instruction (PONSI) assesses that training credit may be available for coursework for which there are equivalencies in MSU Billings curriculum.

EMT Certification – Students who pass the National Registry Emergency Medical Technician training and have a current EMT card may be awarded up to 6 credits of coursework. For students who complete this certification, three credits will be awarded to complete the Life Science category (non-lab) and three credits will be awarded to fulfill part of the Social Science category.

It is highly recommended that students complete the EMT certification early in their academic career. Credits can be posted, if possible, in the flat-spot to maximize a student's tuition, and early completion of the course will assist with better academic planning.

Transcript evaluation (if applicable completed) by: _____ on __/__/_____

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.

Selected Courses and Prerequisites

Key: F= Fall; S=Spring; X=Summer; # = online

Fire Science Associate of Science Program Requirements:

Course	Gen Ed. Category /credits required	Required Pre-requisite	Recommended Pre-requisite	Required Co-Requisite	Recommended Co-requisite	Term Offered
FIRE 105		M114				F
FIRE 115		Appropriate placement scores to enter WRIT 101				F
FIRE 130						F
FIRE 172	Optional course					S
FIRE 180						S
FIRE 214						F
FIRE 255						F
FIRE 275						S
TRID 160						S, F (not always offered)
Gen Ed. Category IA Mathematics	M114 Recommended	M 111 or appropriate placement score				F, F#, S, S#, X, X#
Gen Ed. Category IB English	WRIT 101 3 total credits	WRIT 095 or appropriate placement score				F, F#, S, S#, X, X#
Gen Ed. Category IC Information Literacy	3 credits					F, F#, S, S#, X, X#
Gen Ed. Category II Natural Sciences	7 credits					F, F#, S, S#, X, X#
Gen Ed. Category III Social Science & History	6 credits					F, F#, S, S#, X, X#
Gen Ed. Category IV Cultural Diversity	3 credits					F, F#, S, S#, X, X#
Gen Ed. Category VA	3 credits					F, F#, S, S#, X, X#

Arts						
Gen Ed. Category VB Humanities	3 credits					F, F#, S, S#, X, X#

Program Specific Information

Students should know the following information:

- 1.) This program can be started in either the fall or spring semesters.
- 2.) Students are encouraged to earn their National Registry EMT certification. It is not required for the program but strongly encouraged for job placement and an option to get college credits for this training.
 - a. It is highly recommended that if you choose this option to complete the training and exam in the first year of school.
 - b. Once a student has passed the exam and has the NREMT Basic card they may submit it for college credits.
 - i. A student may earn 6 credits: 3 credits toward the Life Science (Biology) category and 3 credits toward the Social Science category. This would mean that once the EMT card is earned a student would only need to take one Physical Science course with a lab and one Social Science course.
 - c. To get these credits posted you must turn a copy of the current NREMT card into the Registrar's office on the main campus.
- 3.) TRID 160 should be completed in a student's LAST Spring semester so that a student will have a current hazardous material certification when they graduate.
- 4.) Students may wish to continue on to a Bachelor's degree. General Education courses can be carefully chosen with an advisor in order to ensure a more seamless transition.
- 5.) Students planning to continue to a BSBA General Business Program in the College of Business should take M143, WRIT 101, WRIT 220, and ECNS 201.



City College

2013-2014 Fire Science AS Plan of Study

for _____

Date: _____

Semester (_____)

Semester (_____)

Course	Credits	Course	Credits

Semester (_____)

Semester (_____)

Course	Credits	Course	Credits
FIRE 115	3	FIRE 275	3
FIRE 130	3	FIRE 172 (optional)	3
Gen Ed: M114	3	Gen Ed:	3 (Social Science/History)
Gen Ed: WRIT101	3	Gen Ed:	3 (Arts)
Gen Ed:	3 (Social Science/History)	Gen Ed:	3 (Science)
		Gen Ed:	1 (Science)
Total		Total	

Semester (_____)

Semester (_____)

Course	Credits	Course	Credits
FIRE 105	3	FIRE 180	3
FIRE 214	3	TRID 160	3
FIRE 255	2	Gen Ed:	3 (Cultural Diversity)
Gen Ed:	3 (Science)	Restricted Elective	3
Gen Ed:	3 (Humanities)	Restricted Elective	3
Gen Ed:	3 (Comm & Info Literacy)		
Total		Total	

Number of earned credits that apply toward degree: _____

Number of credits left to earn for degree: _____

CERTIFICATION: The courses listed are **required** for the student's degree.

Advisor's Signature: _____ Date: _____

Student's Signature: _____ Date: _____