



ASSOCIATE OF SCIENCE (AS) DEGREE

The Associate of Science (AS) degree is a general transfer degree. This degree indicates that the student has completed a course of study equivalent to the first two years of a bachelor degree. This degree does not officially include a major or minor course of study.

With an Associate of Science degree from FVCC, a student can typically transfer to any Montana University System school with junior class status and be guaranteed that the lower division general education core requirements have been completed for the transfer school.

To receive the AS degree, the following requirements must be met:

- I. **Completion of sixty (60) semester credits in courses numbered 100 level and above for an AS degree. A course cannot satisfy more than one general education core curriculum area in section V below.**
- II. **Final cumulative grade point average of 2.0 or above. A grade of "C-" or better is required for all general education core requirements unless otherwise stated.**
- III. **At least twenty (20) semester credits earned at FVCC and the final ten (10) credits earned at FVCC.**
- IV. **A limit of twelve (12) semester credits graded "S" may count toward the associate degree. Check with transfer institution regarding the acceptance of "S" credits.**
- V. **General Education Core (31+ credits)**

Montana University System General Education Core criteria, in addition to departmental review, were used as a guideline in determining the core requirements listed below. Please note in some cases an individual course may transfer to one school, but not another, as an individual general education core course.

An FVCC student having completed ALL the FVCC General Education Core requirements can transfer to any Montana University System school and be guaranteed the lower division general education core requirements of that school have been met.

TECHNOLOGY SKILLS (T) 1+ credits

Technology Skills is defined as the ability to operate a computer using one or more of the following tools: word processing, spreadsheets, database.

Required: CMPA or CS 100T or higher. Students who have completed high school computer courses with a "B-" or better may waive this requirement; students with previous experience may test out of CMPA 100T.

___	ART	153T*	Digital Imaging I	3
___	ART	157T*	3D Jewelry Design and Modeling I	4
___	ART	257T*	3D Jewelry Design and Modeling II	4
___	ART	258T*	3D Jewelry Design and Modeling III	4
___	ART	259T*	3D Jewelry Design and Modeling IV	4
___	CASC	102T*	Fundamentals of Windows	1
___	CASC	105T*	Fundamentals of Word Processing: Word	1
___	CASC	107T*	Fundamentals of Spreadsheets: Excel	1
___	CASC	108T*	Fundamentals of Database: Access	1
___	CASC	109T*	Fundamentals of Presentation Graphics: PowerPoint	1
___	CASC	115T*	Fundamentals of Internet	1
___	CMPA	100T*	Introduction to Microcomputers	1
___	CMPA	126T*	Networking Fundamentals	4
___	CMPA	130T*	Integrated Software Applications	2
___	CMPA	131T*	Business Software	4
___	CMPA	135T*	Microsoft Publisher	4
___	CMPA	141T*	Beginning Word Processing	3
___	CMPA	151T*	Spreadsheets	3
___	CMPA	153T*	Digital Imaging I	3
___	CMPA	166T*	Computer Operating Systems	3
___	CMPA	172T*	Computer Repair and Maintenance (A+)	3
___	CMPA	210T*	Network Operating Systems	4
___	CMPA	226T*	Routing and Switching	4

___	CMPA	228T*	Wireless Networks	3
___	CMPA	235T*	IT Design Lab	2
___	CMPA	253T*	Information Technology Security	3
___	CMPA	261T*	Introduction to Database Processing	4
___	CMPA	262T*	Advanced Database Processing	4
___	CMPA	270T*	Advanced Web Design with HTML and CSS	3
___	CMPA	271T*	Web Page Programming	4
___	CMPA	273T*	Data Driven Web Sites	3
___	CMPA	274T*	Interactive Media for the Web	3
___	CMPA	275T*	Web Development Tools: Dreamweaver	3
___	CMPA	276T*	Network Design	4
___	CS	100T	Introduction to Computer Science: Computer Literacy	4
___	CS	131T	Visual Basic Programming	4
___	CS	171T	Fundamentals of Computer Science I: JAVA	4
___	CS	172T*	Fundamentals of Computer Science II: JAVA	4
___	CS	204T*	C++ Programming	4
___	CS	212T*	Data Communications	2
___	CS	222T*	Data Structures	3
___	CS	231T*	Computer Organization and Architecture	4
___	EDUC	232T	Instructional Technology	3

WRITING (W)

3 credits

___	ENGL	111W*	English Composition	3
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* Indicates a prerequisite and/or corequisite is needed. Check course description.



COMMUNICATIONS (C) 3+ credits

A minimum of three (3) semester credits selected from the following:

___	BUS	130C*	Business Communications	3
___	CJ	110C	Writing in Criminal Justice	3
___	COMM	245CF	Devising Theatre: Performance and Dialogue	3
___	ENGL	150C*	Technical Writing	3
___	ENGL	201C*	Advanced Composition	3
___	HS	120C	Interpersonal Relations/Communications	3
___	JRNL	101C*	News Writing and Reporting	3
___	JRNL	111C*	College Publications I	3
___	SP	110C	Public Speaking	3
___	SP	120C	Interpersonal Relations/Communications	3
___	SP	150CF	Video Communication	3
___	SP	160CF	Oral Interpretation	3
___	THEA	114C	Acting for Non-Majors	3
___	THEA	150CF	Video Communication	3
___	THEA	245CF	Devising Theatre: Performance and Dialogue	3

MATH (M) 3+ credits

A minimum of three (3) semester credits selected from the following:

___	MATH	111M*	College Algebra	3
___	MATH	112M*	Trigonometry/PreCalculus	4
___	MATH	117M*	Linear Math and Probability	3
___	MATH	121M*	Calculus and Analytic Geometry I	5
___	MATH	122M*	Calculus and Analytic Geometry II	5
___	MATH	175M*	Applied Calculus	5
___	MATH	201M*	Linear Algebra	4
___	MATH	210M*	Elementary Statistics	4
___	MATH	221M*	Calculus and Analytic Geometry III	5
___	MATH	222M*	Differential Equations	5
___	MATH	231M*	Discrete Mathematics	4

HUMANITIES (H) 6+ credits

A minimum of six (6) semester credits selected from the following:

___	ART	221X	Art History Survey I: Ancient to Middle Ages	3
___	ART	222X	Art History Survey II: Renaissance to Modern	3
___	ART	228X	History of Early Italian Renaissance	3
___	ART	229X	History: Italian Renaissance II	3
___	ENGL	110H	Exploration in Literature	3
___	ENGL	115H	Introduction to Poetry	3
___	ENGL	116H	Introduction to Fiction	3
___	ENGL	120GH	Comparative Mythology	3
___	ENGL	206GH*	European Literature of the 20th Century	3
___	ENGL	211H	American Literature I	3
___	ENGL	212H	American Literature II	3
___	ENGL	215GH	African-American Writers	3
___	ENGL	220H	Classical Mythology	3
___	ENGL	229H	Bible as Literature	3

___	ENGL	230H	Theatre as Literature	3
___	ENGL	231H	British Literature I: Beginnings to 18th Century	3
___	ENGL	232H	British Literature II: 19th Century to Present	3
___	ENGL	240H	American Short Story	3
___	ENGL	246GH	Major Women Writers	3
___	ENGL	267H	Shakespeare: Tragedies, History	3
___	ENGL	268H	Shakespeare: Tragedies, Comedies	3
___	HUM	261H	Introduction to Humanities: Origins and Influences I	4
___	HUM	262H	Introduction to Humanities: Origins and Influences II	4
___	LANG	101GH	Elementary French I	5
___	LANG	102GH*	Elementary French II	5
___	LANG	111GH	Elementary German I	5
___	LANG	112GH*	Elementary German II	5
___	LANG	115GH	Elementary Italian I	5
___	LANG	116GH*	Elementary Italian II	5
___	LANG	121GH	Elementary Spanish I	5
___	LANG	122GH*	Elementary Spanish II	5
___	LANG	131GH	Elementary Russian I	5
___	LANG	132GH*	Elementary Russian II	5
___	LANG	215GH*	Intermediate Italian I	4
___	LANG	216GH*	Intermediate Italian II	4
___	LANG	221GH*	Intermediate Spanish I	4
___	LANG	222GH*	Intermediate Spanish II	4
___	PHIL	110H	Introduction to Philosophy	3
___	PHIL	120H	Introduction to Ethics	3
___	PHIL	250HB	Political Theory	3
___	PLSC	250HB	Political Theory	3
___	REL	229H	Bible as Literature	3
___	THEA	100FH	Introduction to Theatre	3
___	THEA	230H	Theatre as Literature	3
___	THEA	267H	Shakespeare: Tragedies, History	3
___	THEA	268H	Shakespeare: Tragedies, Comedies	3

SOCIAL SCIENCES (A, B) 6+ credits

A minimum of six (6) semester credits must be earned. At least one (1) course must be selected from each of Group A and Group B.

Group A (one course):

___	ANTH	100A	Introduction to Anthropology	3
___	ANTH	220GA*	Race and Minorities	3
___	CJ	105A	Introduction to Criminal Justice	3
___	GEOG	105GA	World Regional Geography	3
___	GEOG	201GA	Human Geography	3
___	HS	100A*	Introduction to Human Services/Social Work	3
___	HS	235A*	Developmental Psychology	3
___	PSY	110A	Introduction to Psychology	4
___	PSY	111A	General Psychology	3
___	PSY	210A*	Social Psychology	3
___	PSY	225NA*	Physiological Psychology	3
___	PSY	235A*	Developmental Psychology	3
___	PSY	245A*	Abnormal Psychology	3
___	SOC	105A	Introduction to Criminal Justice	3
___	SOC	110A	Introduction to Sociology	3
___	SOC	210A*	Social Psychology	3
___	SOC	220GA*	Race and Minorities	3

*Indicates a prerequisite and/or corequisite is needed. Check course description.

**Group B (one course):**

___	ECON	140B	Introduction to Political Economy	3
___	ECON	211B	Economic Principles: Microeconomics	3
___	ECON	212GB	Economic Principles: Macroeconomics	3
___	HIST	111B	History of Western Civilization I	4
___	HIST	112B	History of Western Civilization II	4
___	HIST	211B	U.S. History: Colonial Era to 1860's	4
___	HIST	212B	U.S. History: 1860's to Present	4
___	HIST	250B	Montana History	3
___	PHIL	250HB	Political Theory	3
___	PLSC	100B	American Government	3
___	PLSC	200B	American Government: Issues and Policy Making	3
___	PLSC	250HB	Political Theory	3

NATURAL SCIENCE (NL, N)**6+ credits**

Students must successfully complete two (2) or more courses selected from the following (at least one [1] course must be a conventional laboratory experience selected from Group NL):

Group NL (Laboratory Courses):

___	ANTH	210NL*	Forensic Science I	4
___	ANTH	211NL*	Forensic Science II	4
___	BIOL	101NL	General Biology I: Principles of Biology	4
___	BIOL	103N*&104L*	Biology II: The Diversity of Life and Lab	5
___	BIOL	110N & 111L*	Basic Anatomy and Physiology and Lab	4
___	BIOL	120NL	General Botany	3
___	BIOL	121N*&122L*	Introductory Ecology and Lab	4
___	BIOL	205N*&208L*	Microbiology and Lab	4
___	BIOL	206N*&208L*	Microbiology of Infectious Diseases and Lab	4
___	BIOL	207NL*	Microbiology of Infectious Diseases w/Lab	4
___	BIOL	217NL*	Biology: Form and Function of Organisms	4
___	BIOL	218NL*	Biology: Molecular and Cell Structure and Function	4
___	BIOL	219NL*	Biology: Diversity and Ecology	4
___	BIOL	221NL*	Cell and Molecular Biology	5
___	BIOL	231NL*	General Entomology	3
___	BIOL	250NL	Rocky Mountain Flora	3
___	BIOL	261NL*	Human Anatomy and Physiology I	4
___	BIOL	262NL*	Human Anatomy and Physiology II	4
___	CHEM	101NL*	Introduction to Chemistry	4
___	CHEM	121NL*	General Chemistry I	5
___	CHEM	122NL*	General Chemistry II	5
___	CHEM	134NL*	Organic and Biological Chemistry	4
___	CHEM	210NL*	Forensic Science I	4
___	CHEM	211NL*	Forensic Science II	4
___	CHEM	221NL*	Organic Chemistry I	5
___	CHEM	222NL*	Organic Chemistry II	5
___	CHEM	231NL*	General Biochemistry	5
___	GEOG	101NL	Introduction to Physical Geography	4
___	GEOL	100NL	Introduction to Earth Science	4
___	GEOL	101NL	Introduction to Physical Geology	4

___	NSCI	100NL	Introduction to Earth Science	4
___	NSCI	101NL	Introduction to Physical Geography	4
___	NSCI	102NL*	The Nature of Science	4
___	NSCI	103NL*	Basic Physical Science	4
___	NSCI	104NL	Environmental Science	4
___	PHYS	111NL*	College Physics I	5
___	PHYS	112NL*	College Physics II	5
___	PHYS	201NL*	General Physics I	6
___	PHYS	202NL*	General Physics II	6

Group N (Non-Conventional Lab):

___	BIOL	103N*	Biology II: The Diversity of Life (Lecture)	3
___	BIOL	110N	Basic Anatomy and Physiology	3
___	BIOL	115N	Practical Botany: An Overview of Useful Plants	3
___	BIOL	121N*	Introductory Ecology	3
___	BIOL	200N	Field Botany	3
___	BIOL	205N*	Microbiology	3
___	BIOL	206N*	Microbiology of Infectious Diseases	3
___	BIOL	223N*	Genetics and Change	4
___	BIOL	270N*	Pathophysiology	4
___	GEOL	130N	Geology of Northwest Montana	3
___	HLTH	221N*	Basic Human Nutrition	3
___	NR	270N	Wildlife Habitat and Conservation	3
___	NSCI	105N	Introduction to Astronomy	3
___	PHYS	105N	Introduction to Astronomy	3
___	PHYS	106N*	Radiation Physics	3
___	PSY	225NA*	Physiological Psychology	3

GLOBAL ISSUES (G)**3+ credits**

A minimum of three (3) semester credits selected from the following:

___	ANTH	110G	Cultural Anthropology	3
___	ANTH	220GA*	Race and Minorities	3
___	ANTH	230G	Indians of North America	3
___	ANTH	232G	Indians of Montana	3
___	ART	220FG*	Art and Architecture of Venice	3
___	ART	221X	Art History Survey I: Ancient to Middle Ages	3
___	ART	222X	Art History Survey II: Renaissance to Modern	3
___	ART	227FG*	History of Theatre in Venice	3
___	ART	228X	History of Early Italian Renaissance	3
___	ART	229X	History: Italian Renaissance II	3
___	ECON	212GB	Economic Principles: Macroeconomics	3
___	ENGL	120GH	Comparative Mythology	3
___	ENGL	206GH*	European Literature of the 20th Century	3
___	ENGL	215GH	African-American Writers	3
___	ENGL	246GH	Major Women Writers	3
___	GEOG	105GA	World Regional Geography	3
___	GEOG	201GA	Human Geography	3
___	GEOG	256G	Geography of North America	3
___	HIST	270G	Environmental History	3
___	LANG	101GH	Elementary French I	5
___	LANG	102GH*	Elementary French II	5
___	LANG	111GH	Elementary German I	5

*Indicates a prerequisite and/or corequisite is needed. Check course description.



___	LANG	112GH*	Elementary German II	5
___	LANG	115GH	Elementary Italian I	5
___	LANG	116GH*	Elementary Italian II	5
___	LANG	121GH	Elementary Spanish I	5
___	LANG	122GH*	Elementary Spanish II	5
___	LANG	131GH	Elementary Russian I	5
___	LANG	132GH*	Elementary Russian II	5
___	LANG	215GH*	Intermediate Italian I	4
___	LANG	216GH*	Intermediate Italian II	4
___	LANG	221GH*	Intermediate Spanish I	4
___	LANG	222GH*	Intermediate Spanish II	4
___	LANG	241G	Beginning American Sign Language (ASL)	3
___	LANG	242G*	Intermediate American Sign Language (ASL)	3
___	LANG	243G*	Advanced American Sign Language (ASL)	3
___	MUS	222FG	Cultural Music Appreciation	3
___	REL	110G	Introduction to the Study of Religion	3
___	REL	115G	Religion in America	3
___	SOC	220GA*	Race and Minorities	3

Additional degree requirements for Associate of Science:

**Math (M) (selected from the list on page 55) and/or
Natural Science (NL or N) 6+ credits**

Complete six (6) credits from Math (M) and/or Natural Science (NL or N).

Electives 20+/- credits

Total credits for the Associate of Science degree must be at least sixty (60) credits.

TOTAL CREDITS 60

To receive both an Associate of Science and an Associate of Arts degree, the degree requirements for BOTH degrees must be met. An additional fifteen (15) credits are required as specified below:

- ___ A. Fine Arts (F) 3 credits
- ___ B. Communications (C), Humanities (H) or Social Sciences (A or B) 3 credits
- ___ C. Communications (C), Math (M), Humanities (H), Social Sciences (A or B), Natural Sciences (NL or N), and Global Issues (G) listings. 9 credits
- ___ D. A total of 75 credits numbered 100 or above.

