Catalog Addendum
Fall 2013

Columbia Basin College
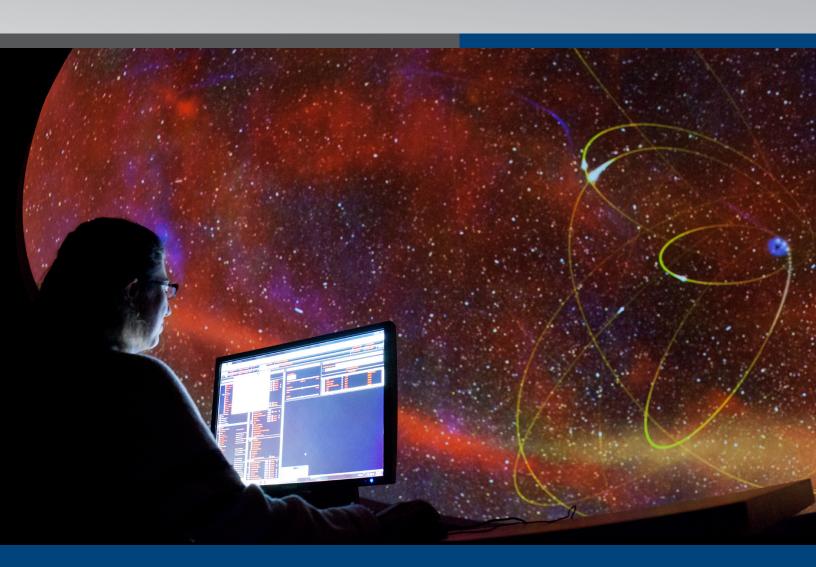
Accreditation

(REPLACE) (page 8)

Columbia Basin College is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and University should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities

8060 165th Avenue NE, Suite 100
Redmond, WA 98052
(425) 558-4224
www.nwccu.org

CBC's accreditation reports can be found at columbiabasin.edu/accreditation.

Bachelor of Applied Science

(CHANGE) (page 8)

Columbia Basin College offers Bachelor of Applied, Science (BAS) degrees in Applied Management, Cyber Security, and Project Management.

The Washington State Legislature authorized the community college baccalaureate program to increase access to bachelor's degrees for Washington citizens. The BAS degree allows CBC to expand the College's workforce mission.

Many two-year degree holders have reached a plateau in their career, unable to advance because they cannot meet the bachelor's degree requirements needed for many supervisory positions. The BAS degree will broaden career opportunities and help graduates improve chances for promotion to management positions. This degree is designed for those who have earned an Associate in Applied Science (AAS) degree, but lack the broader business-related education needed to move into leadership positions. The degree also serves students with an Associate in Arts and Sciences degree.

BAS Tuition & Fees

(ADDITION) (page 10)

	WA Resident	Non WA Resident Open Fee Waiver	Non US Resident International F-1 Visa
Per Credit Charges:			
State Tuition & Fees	241.97	375.96	594.94
CBC Comprehensive Fee	1.65	1.65	1.65
CBC Instructional Support Fee	5.00	5.00	5.00
CBC Technology Fee	3.00	3.00	3.00
Per Credit	251.62	385.61	604.59
Per Quarter Charges:			
AUD, HUB, Safety & Security Fee	32.50	32.50	32.50
Total Charges per Credit:			
1	284.12	418.11	637.09
2	535.74	803.71	1,241.68
3	787.36	1,189.32	1,846.27
4	1,038.98	1,574.92	2,450.86
5	1,290.60	1,960.53	3,055.45
6	1,542.22	2,346.13	3,660.04
7	1,793.84	2,731.74	4,264.63
8	2,045.46	3,117.34	4,869.22
9	2,297.08	3,502.95	5,473.81
10	2,548.70	3,888.55	6,078.40
11	2,563.03	3,903.57	6,093.42
12	2,577.36	3,918.59	6,108.44
13	2,591.69	3,933.61	6,123.46
14	2,606.02	3,948.63	6,138.48
15	2,620.35	3,963.65	6,153.50
16	2,633.03	3,977.02	6,166.87
17	2,645.71	3,990.39	6,180.24
18	2,658.39	4,003.76	6,193.61
Per Credit over 18	239.87	373.86	592.84

The above schedule of tuition and fees includes comprehensive and technology fees as well as special fees levied by the Associated Student Body of Columbia Basin College. Special course and/or laboratory fees may apply to certain courses and will result in additional charges. See course materials.

Transfer Evaluation Policy & Procedure

(ADDITION) (page 12)

Columbia Basin College subscribes to the statewide policy on Inter-Collegiate Transfer and Articulation, as endorsed by the public and private colleges and universities of Washington and the State Board for Community and Technical Colleges and adopted by the Higher Education Coordinating Board. The policy addresses the rights and responsibilities of students and the process for review and appeal in transfer credit disputes.

- All credits are subject to approval by the Student Records office based on credit equivalency, applicability to the degree or certificate, and the transfer institution's accreditation. The College reserves the right to accept or reject credits earned at other institutions.

- In general, it is College policy to accept credits transferred from regionally accredited institutions, provided the credit is essentially equivalent in academic level and content to courses offered at CBC. Credits earned at institutions during their candidacy for accreditation by a regional accrediting association are accepted if accreditation was granted three years subsequent to the candidacy. Credits earned while an institution was not in candidacy or accredited will not be accepted.

- Prior to evaluating transfer credits, students must submit a completed Application for Admission and pay the Admissions Application Fee. The evaluation will be completed when all official transcripts have been received by the Student Records office. A transcript is official if it is sent directly from the sending institution to CBC. Official transcripts can be sent via electronic transmission directly to CBC from any community college in the state of Washington. A transcript may be hand delivered to CBC only if it is sealed in an official envelope from the sending institution. Transcripts are evaluated based on the quarter/year the student plans to start and the order in which they are received. All official transcripts from other colleges must be received by the end of the student's second quarter here at CBC.

- When the evaluation has been completed, students will be mailed a Worksheet for Evaluation of Transfer Credit showing a course-by-course equivalency and the total number of credits accepted. The evaluation is specific to the student's program of study. A lower-division degree-applicable course (usually numbered 100-299) is generally accepted. An upper-division course (usually numbered 300-499) is not accepted unless equivalent in content, credits, and prerequisite to a CBC 100-299 level course.

- A maximum of two-thirds of the total applicable credits required for any CBC degree or certificate may be met with credits transferred from other institutions.

- Credits and grades transferred to CBC from other colleges and universities are included in the calculation of the overall degree GPA. Transfer

courses accepted by the Transcript office are recorded in the Student Management System but CBC's official transcript will show only the name of the transfer institution, credits earned, and GPA.

- Students must earn a minimum combined cumulative grade point average of 2.0 or above in all college-level courses and a course minimum of 1.0 GPA taken at CBC and transferred from other institutions to graduate.
- Currently enrolled students are assigned registration times based on cumulative credit hours earned at CBC or a combination of CBC credits earned and a maximum of 60 quarter transfer credits officially evaluated by the Transcript office.
- International transcripts must be translated and evaluated by a current member of NACES®. Students may contact the Transcript office for a list of recognized international transcript evaluation agencies.
- If students need clarification on an evaluation determination, they are encouraged to contact the Student Records office. It is recommended that students make an individual appointment with a CBC advisor to review how transfer credits will apply to CBC degrees and certificates. In lieu of an official transcript evaluation, an unofficial transcript may be used one quarter only for purposes of advising and registration. Students are required to have an official evaluation on file for subsequent advising appointments. For more detailed information about the transfer evaluation process, contact the Student Records office.

Admission to BAS

(CHANGE) (page 14)

Columbia Basin College offers a Bachelor of Applied Science (BAS) degree in Applied Management, Cyber Security, and Project Management. This degree is designed for those who have earned an Associate in Applied Science (AAS) degree, but lack the broader business-related education needed to move into leadership positions. The BAS program is designed specifically for AAS graduates because their applied science credits are generally nontransferable to four-year institutions. The program gives AAS holders an opportunity to pursue a bachelor's degree without having to start their college education from scratch, allowing full-time students to complete a baccalaureate degree in approximately two years. Anyone with an Applied Science or Associate in Arts and Sciences degree can apply. Although not a requirement, it is also recommended that candidates have work experience in their field of expertise before beginning the program. Due to limited enrollment, applicants have to complete a formal application and an interview before being accepted into the program. For the application and deadlines, visit columbiabasin.edu/BAS.

Course Repeat Policy

(ADDITION) (page 18)

Courses at CBC may be repeated to improve the grade earned. A grade identifier of "R" will be posted next to the lowest graded course on the permanent transcript and the grade point average will exclude any course that has a repeat grade identifier. Letter grades of "P, Z, W, WA, N" are not used in grade point calculations and will not be given the "R" grade identifier next to the repeated course. Credit is given only once and the highest grade earned is used to compute the GPA. Repeated courses must be equivalent in credit and content and all courses and earned grades will remain on the academic transcript. Students receiving financial aid or veterans benefits should consult the respective office prior to repeating a course as financial penalties may be imposed. Other colleges and universities may include repeated course grades in their eligibility for admissions and/or graduation. Courses repeated more than three times are subject to all instructional costs that are equivalent to nonresident tuition. To request a course repeat, students must complete and submit to the Student Records office the Repeated Course Request form found online at columbiabasin.edu/studentforms. A student who takes a course at CBC and subsequently repeats the course at another fully accredited college or university shall be granted a repeat, upon request, for that course with the following conditions:

- The student must be enrolled at CBC
- The course must be evaluated by CBC and verified as substantially equivalent in credit and content via official transcript
- All courses and earned grades will remain on the transcript. A repeat identifier will appear on the CBC transcript and the original grade will be removed from the GPA
- A notation will be entered on the CBC transcript indicating the course was repeated via transfer

Exceptions to the Course Repeat Policy must be submitted for consideration to the Graduation Committee. Contact the Registrar's office for further information.

Military Credit & Experience

(REPLACE) (page 20)

Columbia Basin College recognizes learning acquired in the military by accepting the credit recommendations of the Guide to the Evaluation of Educational Experiences in the Armed Services. In addition, a student may earn credits awarded by institutions listed in the ACE National Guide to Educational Credit for Training Program and the Directory of the National Program on Noncollegiate Sponsored Instruction, provided that the courses are at the college level. Only those courses actually listed in these directories which have been approved for a specific period of time and which correspond to the actual time the student completed the course will be acceptable as college credit. Other non-collegiate training will be evaluated on a case-by-case basis.

Credits will be evaluated only from Official Joint Services Transcripts requested by the student and based on the American Council on Education's Registry of Credit Recommendations. Military credits will be evaluated only from official military documents. Official military transcripts must be received by the end of the student's second quarter here at CBC.

A maximum of three Physical Education credits will be awarded for physical conditioning and all other military credit is limited to a 15-credit maximum in the restricted electives for the Associate in Arts and Sciences degree.

Bachelor of Applied Science (BAS) Degrees

(REPLACE) (page 27)
Minimum of 180 credits

Columbia Basin College is now offering three Bachelor of Applied Science degrees that include Applied Management, Project Management, and Cyber Security. Bachelor of Applied Science degrees are designed to expand career opportunities.

The Applied Management BAS (BAS-AM) degree offers students a chance to take 300- and 400-level business classes without the traditional business prerequisites. The ideal Applied Management candidate is someone who has a workforce degree and is seeking career advancement into a management position. The management curriculum is designed to teach business theory within the context of real life work place.

The Bachelor of Applied Science in Cyber Security (BAS-CS) is designed for two-year Computer Science graduates to continue to build their cyber security skills. The degree offers students a chance to take 300- and 400-level cyber security classes and to prepare for a career in the rapidly growing field of cyber security. The ideal BAS candidate is someone who has a cyber security two-year degree or other two-year computer science degrees. The upper division cyber security courses collectively build on other lower division computer science and cyber

security courses and degrees to meet the needs of businesses and organization to protect computer networks, intellectual property, infrastructure such as the SmartGrid, etc.

The Project Management Bachelor of Applied Science (BAS-PM) degree provides knowledge and skills in project management, including fundamentals (e.g., initiating, planning, execution, monitoring, and control), as well as scheduling software, procurements and contracts, managing human resources, and risk management. The degree incorporates a hands-on, practical application approach and uses experienced project management practitioner perspectives in the development and execution of a project. The BAS degree uses a building block approach of a one-year certificate and two-year Associate in Applied Science degree, where each added step in the education builds on and reinforces the earlier knowledge, skills, and experiences culminating in a Bachelor of Applied Science in Project Management.

The general education courses are specifically designed to support the management program in the areas of applied economics, professional ethics, technology, environmental principles, and the changing diversity of the 21st century worker. Integrated in the course work is the use of technology, sustainability concepts, teamwork skills, and applied ethics across the curriculum. Refer to the degree outline in the Degree & Certificate Requirements section in the 2013-2014 catalog.

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Instructional Divisions

At Columbia Basin College, as at most colleges and universities, instructional departments offer areas of study (e.g., English, sociology, and physics). Related departments are combined into larger divisions (e.g., Arts & Humanities, Health Sciences, Math & Science). The outline below shows CBC's division structure. Students who have questions about the subject matter, requirements, permission to register, etc., for a particular course or program of study are encouraged to contact the appropriate department or the division office.

Arts & Sciences
Executive Dean: Virginia Tomlinson

Arts & Humanities
Division Office: P100
Phone: 509.542.5531
Email: bmckay@columbiabasin.edu
Dean: Bill McKay

Instructional Programs
- Communication Studies
- English/Literature
- Music
- Theatre
- Visual Arts

Business & Information Technology
Division Office: L010A
Phone: 509.542.4863
Email: dmeadows@columbiabasin.edu
Dean: Deborah Meadows

Instructional Programs
- Accounting
- Applied Management
- Business
- Business Administration
- Computer Science
- Culinary
- Cyber Security
- Economics
- Project Management
- Real Estate

Health & Physical Education
Division Office: P100
Phone: 509.542.5531
Email: bmckay@columbiabasin.edu
Dean: Bill McKay

Instructional Programs
- Health Education
- Physical Education

Math & Science
Division Office: S202
Phone: 509.542.4881
Email: vtomlinson@columbiabasin.edu
Executive Dean: Virginia Tomlinson

Instructional Programs
- Agricultural Food Systems
- Agriculture
- Astronomy
- Biology
- Chemistry
- Engineering Technology
- Environmental Science
- General Engineering
- Geography
- Geology
- Horticulture
- Mathematics
- Nutrition & Food Science
- Physics

Social Sciences & World Languages
Division Office: L010A
Phone: 509.542.4863
Email: dmeadows@columbiabasin.edu
Dean: Deborah Meadows

Instructional Programs
- Anthropology
- Arabic
- Chinese
- Criminal Justice
- Cultural Geography
- French
- German
- Hebrew
- History
- Intercultural Studies
- International Studies
- Japanese
- Latino and Latin American Studies
- Philosophy
- Political Science
- Psychology
- Russian
- Social Science
- Sociology
- Spanish
- Women's Studies

Career & Technical Education
Executive Dean: Frank Powers

Basic Skills & Transitional Studies
Division Office: A228
Phone: 509.542.4636
Email: dlarios@columbiabasin.edu
Interim Assistant Dean: Daphne Larios

Instructional Programs
- Adult Basic Education (ABE)
- Developmental Education
- Education
- English as a Foreign Language (EFL)
- English as a Second Language (ESL)
- I-BEST
- Opportunity Grant

Career & Technical Education
Division Office: CTE 101E
Phone: 509.542.4636
Email: fpowers@columbiabasin.edu
Executive Dean: Frank Powers

Instructional Programs
- Agriculture & Industrial Equipment Technology
- Apprenticeship
- Automotive Technology
- Blueprint Reading
- Commercial Drivers License
- Early Childhood Education (ECE)
- Electronics
- Energy Technology
- Manufacturing Technology
- Multi-Occupational Trades
- Nuclear Technology
- Welding Technology
- WorkFirst
- WorkerRetraining

Health Sciences
Division Office: HSC 227
Phone: 509.544.8301
Email: fpowers@columbiabasin.edu
Executive Dean: Frank Powers

Instructional Programs
- Bone Densitometry
- Computed Tomography
- Dental Hygiene
- Diagnostic Ultrasound
- Emergency Medical Technician
- Fire and Emergency Services
- Magnetic Resonance Imaging
- Medical Assistant
- Nuclear Medicine
- Nursing
- Nursing Assistant
- Paramedic
- Phlebotomy
- Radiologic Technology
- Surgical Technology

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Course Prefix & Department Titles

(ADDITION) (page 31)

Course Prefix . . . . Department Title

ACCT and ACCT& . . . . .Accounting

AOT . . . . .Administrative Office Technology

ABE Adult Basic Education/General Education Development (GED)

APM . . . . Aerospace Apprenticeship

AMM . . . . .Aerospace Machine Maintenance

AGET . . Agricultural and Industrial Equipment Technology

AFS . . . . Agricultural Food Systems

AG . . . . Agriculture

ANTH and ANTH& . . . . Anthropology

AMGT . . . . Applied Management

ARAB . . . . Arabic

ART . . . . Art, Visual

ASTR and ASTR&. . . . . Astronomy

AMT . . . . .Automotive Technology

BIOL and BIOL& . . . . Biology

BPR . . . . Blueprint Reading

BUS and BUS& . . . . .Business

CHEM and CHEM& . . . . Chemistry

CHIN and CHIN&. . . . . Chinese

CDL . . . . Commercial Drivers License

CMST and CMST& . . . . . .Communication Studies

CSRE . . . . Community Education

CA . . . . Computer Applications

CS and CS&. . . . . Computer Science

CJ and CJ& . . . . . . .Criminal Justice and Forensics

CUL . . . . .Culinary and Food Services

CSIA . . . . Cyber Security

DEN . . . . Dental Assisting

DHYG . . . . Dental Hygiene

DUTEC . . . . . Diagnostic Ultrasound Technology

ECE. . . . . Early Childhood Education

ECON . . . . Economics

EDUC and EDUC& . . . . Education

ELT . . . . Electronics

EMS . . . . Emergency Medical Services-CPR

EMT . . . . Emergency Medical Technician

NRG . . . . Energy

ENT . . . . .Engineering Technology

ENGL and ENGL& . . . . English

EFL. . . . . English As A Foreign Language

ESL. . . . . . . English As A Second Language

ENVS and ENVS& . . . . . Environmental Science

FS . . . . .Fire Science

FCA . . . . .Firefighter I

FYI . . . . First Year Introduction

FRCH and FRCH& . . . . French

ENGR and ENGR& . . . . . . General Engineering

GEO . . . . Geography

GEOL and GEOL&. . . . . Geology

GERM and GERM& . . . . German

HE . . . . Health Education

HSCI . . . . Health Sciences

HEB . . . . Hebrew

HIST and HIST& . . . . History

HORT . . . . Horticulture

HDEV . . . . .Human Development (HDEV)

DRW . . . . Industrial Drawing

IHT. . . . . .Industrial Hygiene Technology

IC . . . . Instrumentation and Control

ICS . . . . Intercultural Studies

JAPN& . . . . Japanese

MT . . . . .Manufacturing Technology

MATH and MATH& . . . . Mathematics

MEC . . . . Mechanical Maintenance

MA . . . . .Medical Assistant

IMAGE . . . . . . Medical Imaging Technology

MUSC and MUSC& . . . . Music

NOP . . . . Non-Licensed Operator

NMTEC . . . . Nuclear Medicine Technology

NT . . . . Nuclear Technology

NRS . . . . Nursing

NA . . . . .Nursing Assistant

NUTR& . . . . Nutrition

PMD . . . . Paramedic

PHIL and PHIL& . . . . Philosophy

PHLEB . . . . Phlebotomy

PE . . . . Physical Education

PEC . . . . Physical Education Professional

PHYS and PHYS& . . . . Physics

POLS and POLS&. . . . . Political Science

PROJ . . . . Project Management

PSYC and PSYC& . . . . .Psychology

QA . . . . .Quality Assurance

RPT . . . . Radiation Protection Technician

RBR . . . . Radio Broadcasting

RATEC. . . . . Radiologic Technology

RDG . . . . .Reading

RO . . . . Retail Associate

RUSS& . . . . Russian

SSCI . . . . Social Science

SOC and SOC&. . . . . Sociology

SPAN and SPAN& . . . . Spanish

SRGT . . . . Surgical Technology

DRMA and DRMA& . . . . Theatre

WT . . . . Welding Technology

WINE . . . . .Wine Tasting Room Attendant

WS . . . . Women's Studies

Columbia Basin College

Associate in Arts & Sciences (AA) Degree (DTA)
2013-2014 Course Selection Worksheet
(ADDITION) (page 39)

Communication (13 credits)
10 credits in English, plus a minmum of 3 credits in Communication Studies
- **ENGL&** 101
- **ENGL&** 102, 235
- **CMST&** 210, 220, **CMST** 101, 110, 260

Quantitative/Symbolic Reasoning (5 credits)
Choose one class from the Quantitative Reasoning *OR* Symbolic Reasoning courses

Quantitative Reasoning
- **MATH&** 107, any **MATH** course **MATH&** 141 or higher (except **MATH&** 171)

OR

Symbolic Reasoning
- **CS&** 131, **CS** 102, 162, 202
- **PHIL** 121

Humanities (15 credits)
Group A
- **ART&** 100, **ART** 116, 117, 118, 119, 120, 121
- **DRMA&** 101, **DRMA** 215
- **ENGL&** 111, 220, 236, 237, 244, 245, 246, 254, 255, 256, **ENGL** 140, 160, 180, 195, 203, 210, 257, 264, 265, 266, 280
- **MUSC&** 105, **MUSC** 116

Group B
- **CMST** 221, 246
- **HIST&** 126, 127, 128
- **ICS** 120, 125, 130, 135, 222
- **PHIL&** 101, 106, **PHIL** 131, 150
- **WS** 155, 160

Group C (World Languages)
- **ARAB** 121, 122, 123
- **CHIN&** 121, 122, 123
- **EFL** 101, 111
- **FRCH&** 121, 122, 123, 221, 222, 223, **FRCH** 260, 261, 262
- **GERM&** 121, 122, 123, 221, 222, 223, **GERM** 260, 261, 262
- **HEB** 121, 122, 123
- **JAPN&** 121, 122, 123, 221, 222, 223
- **RUSS&** 121, 122, 123
- **SPAN&** 121, 122, 123, 221, 222, 223, **SPAN** 104, 110, 111, 112, 205, 206, 207, 260, 261, 262

Social & Behavioral Sciences (15 credits)
- **ANTH&** 100, 204, 206, 234
- **ECON&** 201, 202, **ECON** 110, 291
- **GEO** 150
- **HIST&** 146, 147, 148, **HIST** 107, 108, 110, 111, 112, 113, 115, 116, 117, 233
- **ICS** 255
- **POLS&** 201, 202, 203, 204, **POLS** 104, 205
- **PSYC&** 100, 200, 220, **PSYC** 103, 201, 205, 209, 270
- **SOC&** 101, 201, **SOC** 110, 150, 269
- **SSCI** 290/2901

Mathematical & Natural Science (15 credits)
- **ANTH** 214, **ANTH&** 205
- **ASTR&** 101/101L
- **BIOL&** 100, 160, 175, 211, 212, 213, 241, 242, 260 **BIOL** 120, 140/140L, 148/148L, 186/186L, 201/201L, 240/240L, 250/250L, 252/252L, 253/253L, 254/254L
- **CHEM&** 110, 121, 122, 123, 131, 140, 161, 162, 163, 241/251, 242/252, 243/253, **CHEM** 254/264, 255/265, 2861-2869 2901-2909
- **ENVS&** 101, **ENVS** 174
- **GEOL&** 101, 103, 110, **GEOL** 102/102L
- **GEO** 101, 120/1201
- **MATH&** 107, 141, 142, 144, 146, 148, 151, 152, 153, 171, 172, 173, 254, **MATH** 113, 147, 243, 246, 255
- **NUTR&** 101
- **PHYS&** 100/101, 134/124, 135/125, 136/126, 241/231, 242/232, 243/233
- **SCI** 110/1101

Health & Physical Education (3 credits)
- **HE** 110,160, 161, 1611, 170, 171/1711, 210, 215/2151, 220, 232, 240, 250
- **PE** 1101, 1111, 1121, 1131, 1141, 1151, 1161, 1171, 1181, 1191, 1201, 1211, 1221, 1271, 1281, 1291, 1321, 1331, 1351, 1401, 1411, 1421, 1451, 1461, 1471, 1481, 1491, 1501, 1601, 1611, 1621, 1631, 1641, 1651, 180/1801, 1811, 1871, 1881, 1891, 1901, 2011

Electives (24 credits)
- Courses must be numbered 100 or above.
- A maximum of 15 credits from restricted electives may be applied.
- Please consult your advisor or counselor.

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Bachelor of Applied Science (BAS) in Applied Management
2013-2014 Degree Requirements
(CHANGE) (page 51)

Communication

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
ENGL&	101	English Composition I	5		
ENGL	410	Professional & Organizational Communication	5		
Communication course (see BAS advisor for appropriate selection)					

<div align="right">Subtotal   10-15</div>

Humanities

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
ICS	310	American Diversity	5		
PHIL	305	Professional Ethics	5		
Humanities course (see BAS advisor for appropriate selection)					

<div align="right">Subtotal   10-15</div>

Social & Behavioral Science

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
PSYC&	100	General Psychology *or* other Social Science course	5		
ECON	305	Managerial Economics[1]	5		
Social Science course(s) (see BAS advisor for appropriate selection)					

<div align="right">Subtotal   10-20</div>

Mathematical & Natural Science

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
MATH		Approved College-Level Math[2]	5		
MATH&	146	Introduction to Stats	5		
ENVS	310	Environmental Issues[3]	5		
Mathematical & Natural Science course(s) (see BAS advisor for appropriate selection)					

<div align="right">Subtotal   15-25</div>

Foundation Workforce Coursework
(see BAS advisor for additional information)

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution

<div align="right">Subtotal   70</div>

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Applied Management Core Coursework

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
AMGT	300	Management & Organization Theory	5		
AMGT	310	Operations Management	5		
AMGT	320	Leadership & Organization Behavior	5		
AMGT	330	Legal Issues for Business & Managers[4]	5		
AMGT	340	Information Technology and Applications	5		
AMGT	360	Business Planning and Strategy	5		
AMGT	400	Financial and Managerial Accounting[5]	5		
AMGT	430	Fundamentals of Financial Management	5		
AMGT	480	Business Strategy Capstone *or*	5		
AMGT	490	Small Business Start-up Capstone	5		
		Subtotal	**45**		

Applied Management Core Electives (select 10 credits from the following)

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
AMGT	317	BAS Special Topics	5		
AMGT	350	Marketing for Managers	5		
AMGT	389	BAS Independent Study	5		
AMGT	410	Project Management	5		
AMGT	417	BAS Special Topics	5		
AMGT	420	Human Resources Management	5		
AMGT	470	BAS Internship	5-10		
AMGT	489	BAS Independent Study	5-10		
Approved Electives (see BAS advisor for appropriate selection)			5-10		
		Subtotal	**10**		
		Total General Credits Required	**180**		

[1]Combination of ECON& 201 and 202 can be substituted for ECON 305

[2]Students are encouraged to take additional transferrable math coursework beyond the required statistics course (MATH& 146) depending upon graduate school admissions requirements or employment goals

[3]Alternatives include any transferable natural science course with a lab; *example*: ENVS& 101 (see also DTA list for natural science options)

[4]BUS& 201 can be substituted for AMGT 330 if taken prior to entering the BAS-AM program

[5]Combination of ACCT& 201, 202, and 203 can be substituted for AMGT 400

Note: to confer the BAS-AM, students must still have a minimum of 55 general education credits, earn a minimum of 180 college-level credits, have at least 45 credits of 300/400-level coursework, and fulfill the BAS-AM knowledge base.

C# and Mobile Device Programming One-Year Certificate

PROFESSIONAL TECHNICAL

2013-2014 Certificate Requirements

(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	102	Programming Fundamentals (minimum grade 2.5)	5		
CS	106	Database Systems *or*	5		
CS	225	SQL Server Programming	5		
CS	117	Computer Ethics *or*	2		
CS	118	Customer Service	3		
CS	150	Computer Security	5		
CS	173	C# Programming	5		
CS	262	Game Programming Design & Development	5		
CS	264	Java for Android Apps *or*	5		
CS	265	Objective-C/iPhone Programming *or*	5		
CS	272	Windows Phone Programming	5		
CS	273	Advanced C# Programming	5		
CS	275	Secure Coding & Software Development/Sr. Project	5		
Select 5 additional credits from any CS courses					
			5		

Subtotal **47-48**

General Education

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
ENG&	101+	English Composition *or* above	5		
MATH	106+	Business Mathematics *or* above	5		
Psychology or Sociology (select 5 credits)					
PSYC&	100+	General Psychology *or* above *or*	5		
SOC&	101	Intro to Sociology *or*	5		
SOC&	201	Social Problems	5		
Communication Studies (select 3-5 credits)					
CMST	101	Speech Essentials *or*	3		
CMST	110	Communication Behavior *or*	3		
CMST&	220	Public Speaking *or*	5		
CMST&	210	Interpersonal Communication *or*	5		
CMST	260	Multicultural Communication	5		

Subtotal **18-20**

Total Credits Required **65-68**

C-Sharp (C#) is a computer programming language that is widely used by most software solution companies. Students who complete this certificate will have basic skills to write applications for emerging markets. The curriculum focuses on traditional desktop technology and moves into Windows Mobile Device, game, and database programming. The students gain experience using Microsoft Visual Studio .NET technology to develop applications, and will have the opportunity to work on team projects. Career opportunities: C# programming and mobile device programming jobs. Mobile devices: Windows phones, Androids, or iPhone/iPad.

Addendum - Fall 2013

C# and Mobile Device Programming Certificate
PROFESSIONAL TECHNICAL
2013-2014 Certificate Requirements
(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	102	Programming Fundamentals (minimum grade 2.5)	5		
CS	106	Database Systems *or*	5		
CS	225	SQL Server Programming	5		
CS	117	Computer Ethics *or*	2		
CS	118	Customer Service	3		
CS	150	Computer Security	5		
CS	173	C# Programming	5		
CS	262	Game Programming Design & Development	5		
CS	264	Java for Android Apps *or*	5		
CS	265	Objective-C/iPhone Programming *or*	5		
CS	272	Windows Phone Programming	5		
CS	273	Advanced C# Programming	5		
CS	275	Secure Coding & Software Development/Sr. Project	5		

Total Credits Required   42-43

C-Sharp (C#) is a computer programming language that is widely used by most software solution companies. Students who complete this certificate will have basic skills to write applications for emerging markets. The curriculum focuses on traditional desktop technology and moves into Windows Mobile Device, game, and database programming. The students gain experience using Microsoft Visual Studio .NET technology to develop applications, and will have the opportunity to work on team projects. Career opportunities: C# programming and mobile device programming jobs. Mobile devices: Windows phones, Androids, or iPhone/iPad.

Addendum - Fall 2013

C++ and Objective-C/iPhone Programming One-Year Certificate
PROFESSIONAL TECHNICAL
2013-2014 Certificate Requirements
(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	106	Database Systems *or*	5		
CS	225	SQL Server Programming	5		
CS	117	Computer Ethics *or*	2		
CS	118	Customer Service	3		
CS&	131	Computer Science I C++	5		
CS	150	Computer Security	5		
CS	162	C++2	5		
CS	260	Data Structures in C++	5		
CS	262	Game Programming Design & Development	5		
CS	265	Objective-C/iPhone Programming	5		
CS	275	Secure Coding & Software Development/Sr. Project	5		
Select 5 additional credits from any CS courses					
			5		

Subtotal   47-48

General Education

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
ENG&	101+	English Composition *or* above	5		
MATH	106+	Business Mathematics *or* above	5		
Psychology or Sociology (select 5 credits)					
PSYC&	100+	General Psychology *or* above *or*	5		
SOC&	101	Intro to Sociology *or*	5		
SOC&	201	Social Problems	5		
Communication Studies (select 3-5 credits)					
CMST	101	Speech Essentials *or*	3		
CMST	110	Communication Behavior *or*	3		
CMST&	220	Public Speaking *or*	5		
CMST&	210	Interpersonal Communication *or*	5		
CMST	260	Multicultural Communication	5		

Subtotal   18-20

Total Credits Required   65-68

C-PlusPlus (C++) is a computer language that provides fundamental programming skills needed for advanced programming in other high level computer languages. Students who complete this certificate will have basic skills to design appropriate data structures for object-oriented programs and use Objective-C language to write apps for Apple's mobile devices such as the iPhone and iPad. The students have an option to develop applications using the following tools: GNUStep, MINGW, XCode, Eclipse or Microsoft Visual .NET, and will have the opportunity to work on team projects. Career opportunities: C++ programming and iPhone/iPad programming jobs. Mobile devices: Windows phones, Androids, or iPhone/iPad.

C++ and Objective-C/iPhone Programming Certificate
PROFESSIONAL TECHNICAL
2013-2014 Certificate Requirements
(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	106	Database Systems *or*	5		
CS	225	SQL Server Programming	5		
CS	117	Computer Ethics *or*	2		
CS	118	Customer Service	3		
CS&	131	Computer Science I C++	5		
CS	150	Computer Security	5		
CS	162	C++2	5		
CS	260	Data Structures in C++	5		
CS	262	Game Programming Design & Development	5		
CS	265	Objective-C/iPhone Programming	5		
CS	275	Secure Coding & Software Development/Sr. Project	5		

Total Credits Required   42-43

C-Plus Plus (C++) is a computer language that provides fundamental programming skills needed for advanced programming in other high level computer languages. Students who complete this certificate will have basic skills to design appropriate data structures for object-oriented programs and use Objective-C language to write apps for Apple's mobile devices such as the iPhone and iPad. The students have an option to develop applications using the following tools: GNUStep, MINGW, XCode, Eclipse, or Microsoft Visual .NET, and will have the opportunity to work on team projects. Career opportunities: C++ programming and iPhone/iPad programming jobs. Mobile devices: Windows phones, Androids, or iPhone/iPad.

Addendum - Fall 2013

Computer Basic Applications Short-Term Certificate
PROFESSIONAL TECHNICAL
2013-2014 Certificate Requirements
(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	106	Database Systems	5		
CS	107	Intermediate Word Processing	2		
CS	108	Intermediate Spreadsheets	2		
CS	207	Word Implementation	5		
CS	208	Advanced Spreadsheets	5		

Total Credits Required   19

This short-term certificate provides an opportuntity to learn skills that are commonly needed for office-related jobs. Students who complete this certificate will have the basic skills and knowledge necessary to create professional Word documents, spreadsheets, and databases. Career opportunities: secretarial-related jobs.

Bachelor of Applied Science (BAS) in Cyber Security
2013-2014 Degree Requirements
(NEW DEGREE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	102	Programming Fundamentals *or*	5		
CS&	131	Computer Science 1 C++ *or*	5		
CS&	141	Computer Science 1 Java w/ Android Devices	5		
CS	106	Database Systems	5		
CS	117	Computer Ethics	2		
CS	140	SharePoint	5		
CS	150	Computer Security	5		
CS	162	C++2 *or*	5		
CS	202	Programming Fundamentals 2 *or*	5		
CS	236	Java I/O with Android Devices & Integration	5		
CS	206	Database Design	5		
CS	221	SQL Server Administration	5		
CS	223	Unix/Linux	5		
CS	228	Windows Server	5		
CS	229	Webmaster	5		
CS	231	Network Infrastructure	5		
CS	232	Network Security	5		
CSIA	200	Computer Forensics Fundamentals	5		
CSIA	250	Networking Fundamentals	5		
CSIA	300	Cyber Security and Information Assurance	5		
CSIA	310	E-Commerce Security	5		
CSIA	320	Ethical Hacking	5		
CSIA	330	Wireless Security	5		
CSIA	410	Cryptography	5		
CSIA	420	Cyber Crime and Terrorism	5		
CSIA	430	UNIX Administration and Security	5		
CSIA	440	Cyber Testing and Penetration	5		
CSIA	450	Cyber Security Capstone	5		
		Subtotal	**117**		

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
PROJ	100	Introduction to Project Management	5		
		Subtotal	**5**		

Addendum - Fall 2013

General Education

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
Communication (select 10 credits)					
ENGL&	101	English Composition	5		
ENGL&	102	Composition II *or*	5		
ENGL	410	Professional & Organizational Communication	5		
Quantitatve Symbolic Reasoning (select 5 credits)					
MATH&	141+	Precalculus I *or* higher (except MATH& 171) (see program advisor for best selection)	5		
Social Science (select 10 credits)					
PSYC&	100	General Psychology *or*	5		
Social Science from distribution list (see program advisor for best selection) *or*			5		
SOC	305	Sociology of Deviance *or*	5		
POLS	305	Future of Warfare	5		
Humanities (select 10 credits)					
PHIL	305	Professional Ethics	5		
Humanities from distribution list (see program advisor for best selection)			5		
Math/Science (select 10 credits)					
Lab science from distribution list (see program advisor for best selection)			5		
Math from distribution list (see program advisor for best selection)			5		
Additional Electives (select 15 credits)					
Communication, Social Science, Humanities, or Math/Science from distribution list (see program advisor for best selection)					
			5		
			5		
			5		

Subtotal	**60**	
Total Credits Required	**182**	

Addendum - Fall 2013

Associate in Applied Science in Cyber Security
PROFESSIONAL TECHNICAL
2013-2014 Degree Requirements
(NEW DEGREE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	101	Introduction to Computers & Information Technology	5		
CS	106	Database Systems	5		
CS	117	Computer Ethics	2		
CS&	131	Computer Science 1 C++ *or*	5		
CS	102	Programming Fundamentals *or*	5		
CS&	141	Computer Science I Java w/ Android Devices	5		
CS	140	SharePoint	5		
CS	150	Computer Security	5		
CS	162	C++2 *or*	5		
CS	202	Programming Fundamentals 2 *or*	5		
CS	236	Java I/O with Android Devices & Integration	5		
CS	206	Database Design	5		
CS	221	Database Administration	5		
CS	223	Unix/Linux	5		
CS	228	Windows Server	5		
CS	229	Webmaster	5		
CS	231	Network Infrastructure	5		
CS	232	Network Security	5		
CSIA	200	Computer Forensics Fundamentals	5		
CSIA	250	Networking Fundamentals	5		

Subtotal **77**

General Education

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
ENGL&	101+	English Composition I *or* above	5		
MATH&	141+	Precalculus I *or* above (except MATH& 171)	5		
PSYC&	100+	General Psychology *or* above *or*	5		
SOC&	101	Intro to Sociology *or*	5		
SOC&	201	Social Problems	5		
CMST	101	Speech Essentials *or*	3		
CMST	110	Communication Behavior *or*	3		
CMST&	210	Interpersonal Communication *or*	5		
CMST&	220	Public Speaking *or*	5		
CMST	260	Multicultural Communication	5		

Subtotal **18-20**

Total Credits Required **95-97**

Note: MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes.
Students must receive minimum 2.0 grade in all CS courses.

Java I/O and Android Apps Programming Short-Term Certificate
PROFESSIONAL TECHNICAL
2013-2014 Certificate Requirements
(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS&	141	Computer Science I Java	5		
CS	236	Java I/O and Intro to Integration	5		
CS	264	Java for Android Apps	5		

Total Credits Required   **15**

This short-term certificate provides an opportunity to learn how to manipulate files and data using the Java language and to develop applications for Android phones. It also introduces Java Integration libraries and essential Java packages for back-end programming. Career opportunities: Java programmer.

Addendum - Fall 2013

Java, Web, and Mobile Device Programming One-Year Certificate
PROFESSIONAL TECHNICAL
2013-2014 Certificate Requirements
(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	106	Database Systems	5		
CS	114	HTML/XHTML (Internet Publishing 1)	5		
CS	117	Computer Ethics *or*	2		
CS	118	Customer Service	3		
CS&	141	Computer Science I Java w/ Android Devices	5		
CS	223	Unix/Linux	5		
CS	225	SQL Server Programming	5		
CS	236	Java I/O with Android Devices & Integration	5		
CS	264	Android Application Development *or*	5		
CS	265	Objective-C/iPhone Programming *or*	5		
CS	272	Windows Phone Programming	5		
CS	275	Secure Coding & Software Development/Sr. Project	5		
Select 5 additional credits from any CS courses					
			5		

Subtotal   47-48

General Education

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
ENG&	101+	English Composition *or* above	5		
MATH	106+	Business Mathematics *or* above	5		
Psychology or Sociology (select 5 credits)					
PSYC&	100+	General Psychology *or* above *or*	5		
SOC&	101	Intro to Sociology *or*	5		
SOC&	201	Social Problems	5		
Communication Studies (select 3-5 credits)					
CMST	101	Speech Essentials *or*	3		
CMST	110	Communication Behavior *or*	3		
CMST&	220	Public Speaking *or*	5		
CMST&	210	Interpersonal Communication *or*	5		
CMST	260	Multicultural Communication	5		

Subtotal   18-20
Total Credits Required   65-68

The Java programming language provides a set of skills needed for desktop and web programming required by a large number of software solution companies. Students who complete this certificate will have basic skills to design and develop applications and applets and produce mobile and web-based applications in Java using the following tools: J2EE, and/or NetBeans. In addition, students will have the opportunity to work on team projects. Career opportunities: web developer, web design, and mobile device programming jobs. Manufactures/mobile devices: Verizon, AT&T, T-Mobile, and Sprint/Windows phones, Androids, or iPhone/iPad.

Addendum - Fall 2013

Java, Web, and Mobile Device Programming Certificate
PROFESSIONAL TECHNICAL
2013-2014 Certificate Requirements
(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	106	Database Systems	5		
CS	114	HTML/XHTML (Internet Publishing 1)	5		
CS	117	Computer Ethics *or*	2		
CS	118	Customer Service	3		
CS&	141	Computer Science I Java w/ Android Devices	5		
CS	223	Unix/Linux	5		
CS	225	SQL Server Programming	5		
CS	236	Java I/O with Android Devices & Integration	5		
CS	264	Android Application Development *or*	5		
CS	265	Objective-C/iPhone Programming *or*	5		
CS	272	Windows Phone Programming	5		
CS	275	Secure Coding & Software Development/Sr. Project	5		

Total Credits Required   42-43

The Java programming language provides a set of skills needed for desktop and web programming required by a large number of software solution companies. Students who complete this certificate will have basic skills to design and develop applications and applets and produce mobile and web-based applications in Java using the following tools: J2EE, and/or NetBeans. In addition, students will have the opportunity to work on team projects. Career opportunities: web developer, web design, and mobile device programming jobs. Manufacturers/mobile devices: Verizon, AT&T, T-Mobile, and Sprint/Windows phones, Androids, or iPhone/iPad.

Addendum - Fall 2013

Network and Security One-Year Certificate
PROFESSIONAL TECHNICAL
2013-2014 Certificate Requirements
(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	117	Computer Ethics *or*	2		
CS	118	Customer Service	3		
CS	127	Windows Configuration	5		
CS	150	Computer Security	5		
CS	221	SQL Administration	5		
CS	223	Unix/Linux	5		
CS	228	Windows Server	5		
CS	230	Active Directory	5		
CS	231	Network Infrastructure	5		
CS	232	Network Security	5		
Select 5 additional credits from any CS courses					
			5		

Subtotal   47-48

General Education

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
ENG&	101+	English Composition *or* above	5		
MATH	106+	Business Mathematics *or* above	5		
Psychology or Sociology (select 5 credits)					
PSYC&	100+	General Psychology *or* above *or*	5		
SOC&	101	Intro to Sociology *or*	5		
SOC&	201	Social Problems	5		
Communication Studies (select 3-5 credits)					
CMST	101	Speech Essentials *or*	3		
CMST	110	Communication Behavior *or*	3		
CMST&	220	Public Speaking *or*	5		
CMST&	210	Interpersonal Communication *or*	5		
CMST	260	Multicultural Communication	5		

Subtotal   18-20

Total Credits Required   65-68

Students who complete this certificate will have the basic skills required to plan, implement, troubleshoot, and secure computer networks. Such skills are required in various types of computer network administration and technical support related fields. Career opportunities: network technician, help desk technician, computer user support technician, and network security technician.

Addendum - Fall 2013

Network and Security Certificate
PROFESSIONAL TECHNICAL
2013-2014 Certificate Requirements
(NEW CERTIFICATE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	117	Computer Ethics *or*	2		
CS	118	Customer Service	3		
CS	127	Windows Configuration	5		
CS	150	Computer Security	5		
CS	221	SQL Administration *or*	5		
CS	225	SQL Server Programming	5		
CS	223	Unix/Linux	5		
CS	228	Windows Server	5		
CS	230	Active Directory	5		
CS	231	Network Infrastructure	5		
CS	232	Network Security	5		

Total Credits Required   42-43

Students who complete this certificate will have the basic skills required to plan, implement, troubleshoot, and secure computer networks. Such skills are required in various types of computer network administration and technical support related fields. Career opportunities: network technician, help desk technician, computer user support technician, and network security technician.

Addendum - Fall 2013

Bachelor of Applied Science (BAS) in Project Management
2013-2014 Degree Requirements
(NEW DEGREE)

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
PROJ	100	Introduction to Project Management	5		
PROJ	110	Project Planning	5		
PROJ	120	Project Execution & Control	5		
PROJ	130	Introduction to Microsoft Project *or*	5		
PROJ	140	Introduction to Primavera	5		
PROJ	211	Project Procurement	3		
PROJ	221	Project Integration & Communication	3		
PROJ	231	Project Risk Management	5		
PROJ	310	Project Contracts & Legal Issues	5		
PROJ	320	Project Monitoring, Control, & Earned Value	5		
PROJ	330	Project HR Management & Communication Skills	5		
PROJ	411	Advanced Microsoft Project *or*	5		
PROJ	421	Advanced Primavera	5		
PROJ	480	Advanced Project Management Capstone	5		
		Subtotal	**56**		

Support Courses

(see program advisor for approved courses)

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
		Subtotal	**64**		

Addendum - Fall 2013

General Education

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
Communication (10 credits)					
ENGL&	101	English Composition I	5		
ENGL	410	Professional & Organizational Communication	5		
Quantitatve Symbolic Reasoning (5 credits)					
MATH&	107	Math in Society *or*	5		
Any MATH course MATH& 141 *or* higher (except MATH& 171)			5		
Mathematical & Natural Sciences (10 credits)					
ENVS	310	Environmental Issues	5		
Approved lab science from distribution list			5		
Social & Behavioral Science (10 credits)					
PSYC&	100	General Psychology *or*	5		
Social Science course (see program advisor for appropriate selection)			5		
ECON	305	Managerial Economics	5		
Humanities (10 credits)					
ICS	310	American Diversity	5		
PHIL	305	Professional Ethics	5		
Additional Electives (15 credits)					
Program advisor approved Communication, Social & Behavioral Science, Humanities, *or* Mathematical & Natural Sciences courses from distribution list					
			5		
			5		
			5		

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Subtotal   60

Total Credits Required   180

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Courses & Programs

CSIA 420
Cyber Crime and Terrorism •5 credits
(ADDITION) (page 200)

This class begins with a broad introduction to the field of computer crime, discussing the history of computer crime, basic criminal techniques, and the relevant laws. It walks students through forensics, litigation, depositions, expert reports, trials, and how to select an appropriate expert witness. This class also covers specific techniques and tricks that hackers use and how to defend against such attacks. Prerequisite: CS 250, CS 232, CSIA 300, and CSIA 320.

CSIA 430
UNIX Administration and Security • 5 Credits
(ADDITION) (page 200)

Students study UNIX/Linux system administration and security. System administration topics include installation, kernel configuration and customization, user administration, package management and backup, automating and scheduling tasks, file system management and maintenance, and system initialization and services. Students also learn how to assess security on UNIX/Linux systems, take appropriate actions to correct security deficiencies, and prepare administrative reports. Prerequisite: CS 150 and 223.

CSIA 440
Cyber Testing and Penetration •5 credits
(ADDITION) (page 200)

This course covers a broad base of topics in advanced penetration testing and information security analysis. Students are exposed to techniques and tools to perform a thorough penetration test along with legal requirements, rules of engagement, how to plan and schedule a test, how to perform vulnerability analysis, external and internal penetration testing, and techniques to conduct an advanced penetration test. Prerequisite: CSIA 300, 320, and 330.

CSIA 450
Cyber Security Capstone •5 credits
(ADDITION) (page 200)

This course integrates all the various cyber security knowledge and skills learned in previous courses into a simulated project. Emphasis is placed on security policy, process planning, procedure definition, business continuity, and systems security architecture. Upon completion, students should be able to design and implement comprehensive information security architecture from the planning and design phase through implementation. Prerequisite: CSIA 440 or concurrent enrollment.

Addendum - Fall 2013

Columbia Basin College