



**Columbia
Basin
College**

**Addendum to
2001 – 2003
Catalog
updated material
June 2002**



2001-2003
CATALOG

2002 - 2003 Associate in Science Transfer Degree Worksheet

Biological Sciences/Chemistry/Environmental or Resources Sciences/Geology & Earth Sciences

	COLUMBIA BASIN COLLEGE	Department	Course #	Credits	Quarter
A	Communications (5 credits) ENG 101, 201	_____	_____	_____	_____
B	Math (10 credits) (Two courses at or above calculus) MTH 231, 232, 233, 234, 243, 254	_____	_____	_____	_____
C	Humanities & Social/Behavioral Science (15 credits) <input type="checkbox"/> Complete at least one course from each of the following groups. <input type="checkbox"/> Courses must be selected from three different subjects. 1. ART 110, 116, 117, 118, 119, 120, 121; MUS 115, 116; LIT 135, 137, 140, 150, 170, 180, 195, 205, 206, 207, 225, 226, 227, 264, 265, 266, 270; THA 115, 150, 215; SPE 246; HIS 101, 102, 103; ICS 120, 125; PHIL 101, 120, 131, 150; WS 155, 160; COM 201; ENG 110; FOREIGN LANGUAGE 101 & above, (excluding conversational classes) EFL 101, 111 All foreign language courses count as a single subject area. 2. PSY 100, 101, 201, 202, 205, 240; SOC 101, 150, 201; AG 240; ANT 101, 120, 130 EC 201, 202, 291; GEO 150; HIS 104, 105, 110, 112, 115; ICS 255; PS 100, 101, 103, 104	_____	_____	_____	_____
D	Pre Major (45-50 Credits) 1. CHM 111, 112, 113 2. MTH 143 or 233 3. BIO 111, 112, 113 or <input type="checkbox"/> PHY 105, 106 and 107 or <input type="checkbox"/> PHY 201, 202 and 203 4. Additional requirements: 10-15 quarter credits in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors (not for general education), preferably in a 2- or 3- quarter sequence.	_____	_____	_____	_____
E	Program Specific Under Advisement (10-15 credits) Sufficient additional college-level credits so that total credits earned are at least 90 quarter credits. These remaining credits may include prerequisites for major courses (e.g., pre-calculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.	_____	_____	_____	_____

** Some baccalaureate programs require physics with calculus
 *** A single course cannot count in two areas.

Select courses based on the requirements or the specific discipline at the baccalaureate institution you plan to attend.

- Note:
- Required minimum credits 90
 - Required cumulative GPA 2.0
 - A minimum of 30 credits CBC courses.
 - Depending on your major, some course choices may be more appropriate than others.
 - Consult with your counselor or faculty advisor.

"The Associate of Science Degree does **NOT** guarantee that a student has met the general education requirements at the transfer baccalaureate institution."

2002 – 2003 Associate in Science Transfer Degree Worksheet

Engineering/Computer Science/Physics/Atmospheric Sciences

COLUMBIA BASIN COLLEGE	Department	Course #	Credits	Quarter
A Communications (5 credits) ENG 101, 201	_____	_____	_____	_____
B Math (10 credits) (Two courses at or above calculus) MTH 231, 232, 233, 234, 243, 254	_____	_____	_____	_____
C Humanities & Social/Behavioral Science (15 credits) <input type="checkbox"/> Complete at least one course from each of the following groups. <input type="checkbox"/> Courses must be selected from three different subjects. 1. ART 110, 116, 117, 118, 119, 120, 121; MUS 115, 116; LIT 135, 137, 140, 150, 170, 180, 195, 205, 206, 207, 225, 226, 227, 264, 265, 266, 270; THA 115, 150, 215; SPE 246; HIS 101, 102, 103; ICS 120, 125; PHIL 101, 120, 131, 150; WS 155, 160; COM 201; ENG 110; FOREIGN LANGUAGE 101 & above, (excluding conversational classes) EFL 101, 111 All foreign language courses count as a single subject area. 2. PSY 100, 101, 201, 202, 205, 240; SOC 101, 150, 201; AG 240; ANT 101, 120, 130; EC 201, 202, 291; GEO 150; HIS 104, 105, 110, 112, 115; ICS 255; PS 100, 101, 103, 104	_____	_____	_____	_____
D Pre Major (30 credits) 1. Science (5 credits) <input type="checkbox"/> Any science based on program requirements or <input type="checkbox"/> CHM 111 - engineering majors 2. Math (5 credits) MTH 143 or 233 3. Computer Science (5 credits) CS 102, 104 or 161 4. Physics (15 credits) Choose one of the following sequences: <input type="checkbox"/> PHY 105, 106 and 107 or <input type="checkbox"/> PHY 201, 202 and 203	_____	_____	_____	_____
E Program Specific Under Advisement (30 credits) The remaining 30 quarter credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards.	_____	_____	_____	_____

** Some baccalaureate programs require physics with calculus
 *** A single course cannot count in two areas.

Sequences of courses should be completed at one institution.
 Select courses based on the requirements or the specific discipline at the baccalaureate institution you plan to attend.

Note: Required minimum credits 90
 Required cumulative GPA 2.0
 A minimum of 30 credits CBC courses.
 Depending on your major, some course choices may be more appropriate than others.
 Consult with your counselor or faculty advisor.

The Associate of Science Degree does **NOT** guarantee that a student has met the general education requirements at the transfer baccalaureate institution.

AA DEGREE OPTION C

Option C - is a two year, major specific, general education degree designed to satisfy the general educational requirements and most or all of the specific pre-program major requirements of most baccalaureate institutions. This is an approved Direct Transfer Agreement (DTA) as per the Inter-collegiate Relations Commission. The degree requires a minimum core of 66 credits, including 13 credits in Communications, 15 credits in Social Science/ Behavioral Science, 15 credits in Science/Mathematics, 15 credits in Humanities, 5 credits in Quantitative/Symbolic Reasoning Skills, and 3 credits in Health/Physical Education. The degree requires 24 elective credits, with a total of 90 quarter credits and a cumulative GPA of 2.0 or above. In addition, students must earn 30 of the credits at Columbia Basin College. Substitutions of graduation requirements must be recommended by departmental faculty and the divisional dean and be approved by the Graduation/Admissions Committee.

GRADE APPEAL PROCEDURE

Students have responsibility for familiarizing themselves with Columbia Basin College's academic policies and practices as found in the college catalog and web site and in course syllabi. Additionally, students are responsible for learning the content of a course of study according to the standards of performance established by the faculty as outlined in course syllabi. Evaluations shall represent instructors' professional judgments of student performance.

If a student has reason to believe that a mistake was made in the computation of a course grade or otherwise believes a problem exists in a course grade that has been assigned, a student may request an appeal of the course grade. Students should understand, however, that a grade appeal may result in a higher grade, a lower grade, or no change in grade.

The following procedures may be initiated no later than the end of the quarter following the one wherein the course was undertaken (excluding summer quarter):

1. The student should engage the instructor of record in an informal meeting to discuss the course grade. If the instructor is no longer employed by CBC or is otherwise unavailable during that quarter, the student should discuss the matter with the appropriate division dean.
2. The student should be able to present copies of all assessments and other relevant coursework/materials considered in the computation of the grade that were returned to the student so that an effective review of the course grade may be undertaken.
3. If an error is discovered that would change the course grade, the instructor or appropriate division dean will complete the necessary administrative processes for a grade change.

ACCOUNTING

Due to changes in math numbering, math requirements have been updated in the Technical Support Courses and General Education Requirements for the Accounting Certificate and Degree.

ACCOUNTING ASSOCIATE ONE-YEAR CERTIFICATE

Technical Core:	(21 credits)
BA 251	Principles of Accounting 5
BA 252	Principles of Accounting 5
BA 105	Business & Payroll Taxes 5
BA 111	Computerized Accounting 5

Technical Support Courses: (a minimum of 15 credits are required)	
BA 101	Introduction to Business 5
BA 120	Personal Financial Planning 5
BA 254	Business Law 5
BA 255	Business Law 5
BA 270	Accounting Review/Excel 5
BA 295.2	Cooperative Work Experience 2-5
BT	Keyboarding 2-4
CA 100	Intro to Microcomputers 4
CS 106	Database 2
CS 108	Spreadsheets 2
EC 201	Economics 5
EC 202	Economics 5
MTH 143	Statistics 5
MTH 147	Finite Math 5
MTH 210	Basic Calculus 5

General Education Requirements:	(16 credits)
ENG 101	English Composition 5
*MTH	Math 106 or higher 5
PSY 101	Introduction to Psychology or Social Psychology or
SOC 101	Introduction to Sociology 5
SPE 101	Speech Essentials or
SPE 110	Communication Behavior 3

*To be approved by department.

ACCOUNTING ASSOCIATE TWO-YEAR APPLIED SCIENCE DEGREE

Technical Core:	(35 credits)
BA 251	Principles of Accounting 5
BA 252	Principles of Accounting 5
BA 253	Principles of Accounting 5
Select 4 courses from the following options:	
BA 105	Business & Payroll Taxes 5
BA 107	Federal Income Taxes 5
BA 111	Computerized Accounting 5
BA 263	Principles of Finance 5
BA 264	Principles of Accounting Applications 5

Technical Support Courses: (a minimum of 35 credits are required)	
BA 101	Introduction to Business 5
BA 120	Personal Financial Planning 5
BA 165	Investments 5
BA 254	Business Law 5
BA 255	Business Law 5
BA 270	Accounting Review/Excel 5
BA 295.2	Cooperative Work Experience 2-5
BT	Keyboarding 2-4
CA 100	Intro to Microcomputers 4
CS 106	Database 2
CS 108	Spreadsheets 2
EC 201	Economics 5
EC 202	Economics 5
MTH 143	Statistics 5
MTH 147	Finite Math 5
MTH 210	Basic Calculus 5

General Education Requirements: (23 credits)	
ENG 101	English Composition 5
ENG 205	Technical Communications 5
*MTH	Math 106 or above 5
PSY 101	Introduction to Psychology or Social Psychology or
SOC 101	Introduction to Sociology 5
SPE 101	Speech Essentials or
SPE 110	Communication Behavior 3

*To be approved by department.

AGRICULTURE

AGRICULTURE BUSINESS MANAGEMENT

Core Courses:

AG 195.2.....	Supervised Employment*	10
AG 196.2.....	Supervised Employment Seminar*	2
AG 201.....	Soils	4
AG 201.1.....	Soils Lab	1
AG 240.....	Ag Economics	5
AG 241.....	Ag Marketing	5
AG 242.....	Ag Finance	5
AG 243.....	Ag Legal Problems or	5
BA 254.....	Business Law	5
AG 244.....	Ag Labor Relations	5
AG 245.....	Ag Business Management	5
AG 295.2.....	Supervised Employment	10
AG 296.2.....	Supervised Employment Seminar	2
Total Core classes required		64

*Other college levels courses that fit the needs of the student and are approved by the students' advisor will be considered for graduation.

Electives:

33 Credits

AG 101.....	Field Crop	5
AG 116.....	Ag Mathematics	3
AG 140.....	Weeds	5
AG 141.....	Crop Protection I	5
AG 142.....	Crop Protection II	5
AG 143.....	Fertilizer Technology	5
AG 145.....	Ag Entomology	5
AG 146.....	Plant Pathology	5
AG 148.....	Ag Chemistry	3
AG 150.....	Farm Livestock	5
AG 181.....	Ag Irrigation	5
AG 200.1.....	Applied Agriculture	2
AG 230.....	Tree Fruit Production	5
AG 231.....	General Viticulture	5
AG 232.....	Vegetable Production	5
AG 233.....	Potato Production	4
AG 233.1.....	Potato Production Lab	1
AG 235.....	Green House Production	5
AG 247.....	Farm Management	5
Credits of electives required		33

General Education Requirements

101 or higher.....	English	5
101 or higher.....	Speech	3
100 or higher.....	Math	5
100 or higher.....	Psychology OR	3
BA 271.....	Human Relations Business	5
Gen. Ed's Total		16 - 18

Total credits required 113-115

AGRICULTURE PRODUCTION

Core Courses:

AG 101.....	Field Crops	5
AG 140.....	Weeds	5
AG 141.....	Crop Protection I	5
AG 142.....	Crop Protection II	5
AG 146.....	Plant Pathology	5
AG 148.....	Ag Chemistry	3
AG 181.....	Irrigation I	5
AG 195.2.....	Supervised Employment*	10
AG 196.2.....	Supervised Employment Seminar*	2
AG 201.....	Soils	4
AG 201.1.....	Soils Lab	1
AG 240.....	Ag Economics	5
AG 241.....	Ag Marketing	5
AG 242.....	Ag Finance	5
AG 243.....	Ag Legal Problems or	5
BA 254.....	Business Law	5
AG 244.....	Ag Labor Relations	5
AG 245.....	Ag Business Management	5
AG 295.2.....	Supervised Employment	10
AG 296.2.....	Supervised Employment Seminar	2
		92

*Other college level courses that fit the needs of the student and are approved by the students' advisor will be considered for graduation.

Electives: 10 Credits

AG 116.....	Ag Mathematics	3
AG 143.....	Fertilizer Technology	5
AG 145.....	Ag Entomology	5

AG 150.....	Farm Livestock	5
AG 200.1.....	Applied Agriculture	2
AG 230.....	Tree Fruit Production	5
AG 231.....	General Viticulture	5
AG 232.....	Vegetable Production	5
AG 233.....	Potato Production	4
AG 233.1.....	Potato Production Lab	1
AG 235.....	Green House Production	5
AG 246.....	Farm Accounting or	5
BA 251.....	General Accounting	5
AG 247.....	Farm Management	5

General Education Requirements

101 or higher.....	English	5
101 or higher.....	Speech	3
100 or higher.....	Math	5
100 or higher.....	Psychology OR	3
BA 271.....	Human Relations Business	5
Gen. Ed's Total		16 - 18

Total credits required 118-120

AGRICULTURE CHEMICAL BUSINESS

Core Courses:

AG 141.....	Crop Protection I	5
AG 142.....	Crop Protection II	5
AG 143.....	Fertilizer Technology	5
AG 148.....	Ag Chemistry	3
AG 195.2.....	Supervised Employment*	10
AG 196.2.....	Supervised Employment Seminar*	2
AG 201.....	Soils	4
AG 201.1.....	Soils Lab	1
AG 240.....	Ag Economics	5
AG 241.....	Ag Marketing	5
AG 242.....	Ag Finance	5
AG 243.....	Ag Legal Problems or	5
AG 254.....	Business Law	5
AG 244.....	Ag Labor Relations	5
AG 245.....	Ag Business Management	5
AG 295.2.....	Supervised Employment	10
AG 296.2.....	Supervised Employment Seminar	2
		77

*Other college level courses that fit the needs of the student and are approved by the students' advisor will be considered for graduation.

Electives:

20 Credits

AG 101.....	Field Crops	5
AG 116.....	Ag Mathematics	3
AG 140.....	Weeds	5
AG 145.....	Ag Entomology	5
AG 146.....	Plant Pathology	5
AG 200.1.....	Applied Agriculture	2
AG 230.....	Tree Fruit Production	5
AG 231.....	General Viticulture	5
AG 232.....	Vegetable Production	5
AG 233.....	Potato Production	4
AG 233.1.....	Potato Production Lab	1
AG 235.....	Green House Production	5
AG 246.....	Farm Accounting or	5
BA 251.....	General Accounting	5
AG 247.....	Farm Management	5

General Education Requirements

101 or higher.....	English	5
101 or higher.....	Speech	3
100 or higher.....	Math	5
100 or higher.....	Psychology OR	3
BA 271.....	Human Relations Business	5
Gen. Ed's Total		16 - 18

Total credits required 115-117

ANTHROPOLOGY

Delete ANT 110 no longer offered

NEW!

ANT 111 [M/S] INTRO TO PHYSICAL ANTHROPOLOGY (5)
 Physical Anthropology is the study of human beings from an evolutionary and biological perspective and ANT 111 provides an introduction to this sub-field of anthropology. In this course we will examine our own species (Homo sapiens) by looking at the biological basis of life, the processes of evolution, our primate relatives both living and extinct, and the variation seen in modern human populations. Because of the research paper requirement in this class it is strongly recommended that students complete ENG 101 before taking ANT 111.

BUSINESS ADMINISTRATION

Due to changes in math numbering, math requirements have been updated in the Technical Support Courses and General Education Requirements for the Accounting Certificate and Degree.

ONE-YEAR CERTIFICATE

Technical Core:	(24 credits)
BA 101 Introduction to Business	5
BA 251 Principles of Accounting	5
BA 254 Business Law	5
BA 271 Human Relations	5
CA 100 Introduction to Microcomputers or	4
CA/CS Software Programs (2)	4

Technical Support Courses (18 credits)
Options: You may pick optional classes from prepared lists of courses. See advisor to make your course selections.

General Education Requirements:	(23 credits)
ENG 101 English Composition	5
MTH Math 106 or above	5
PSY 201 Social Psychology	5
SOC 101 Introduction to Sociology	5
SPE 101 Speech Essentials or	3
SPE 110 Communication Behavior	3

A.A.S. DEGREE

Technical Core:	(34 credits)
BA 101 Introduction to Business	5
BA 251 Principles of Accounting	5
BA 252 Principles of Accounting	5
BA 254 Business Law	5
EC 201 Economics	5
EC 202 Economics	5
CA 100 Introduction to Micro-Computers or	4
CA/CS Software Programs (2)	4

Technical Support Courses: (30 credits)
Options: You may pick optional classes from prepared lists of courses. See advisor to make your course selections.

General Education Requirements: (33 credits)	
ENG 101 English Composition	5
ENG 201 Advanced English Composition or	5
ENG 205 Technical Writing	5
*MTH Math 106 or above	5
PSY 201 Social Psychology	5
SCI 100 Environmental Science	5
SOC 101 Introduction to Sociology	5
SPE 101 Speech Essentials or	3
SPE 110 Communication Behavior or	3
SPE 120 Multimedia Speech	3

*To be approved by department

NEW!

AA DEGREE OPTION C

AA DEGREE WITH BUSINESS EMPHASIS

Communications (13-15 credits)	
ENG 101	5
ENG 201	5
or ENG 205	5
Speech 101, 102, 110, 120, 260	3-5
Math Proficiency (5 credits)	
Quantitative/Symbolic Reasoning (5 credits)	
Basic Calc Math 210	5
Humanities (15 credits)	
15 credits selected from the AA Degree Humanities List	
Social & Behavioral Science (15 credits)	
Economic 201	5
Psychology or Sociology	5
Other social science ^{1,2}	5
¹ Selected from the AA degree Social and Behavioral Science List	
Mathematical & Natural Science (15 credits)	
Lab Science ³	5
Statistics 143	5
Science Course ³	5
³ Select from the AA Degree Mathematical & Natural Science List	

Health & Physical Education (3 credits)
Health lecture or PE activity courses

Electives (24 credits)	
Econ 202	5
Business Law 254	5
Accounting 251, 252, 253	15
Additional Elective chosen from ⁴	5
Math 154 (previously Math 104)	
Finite Math 147 (previously Math 200)	
Business Law 255	
Computer Class(es)	

² Business students planning to transfer to WSU should take a political science course.

⁴ See advisor for best personal choice.

BA 251	PRINCIPLES OF ACCOUNTING	(5)
Fundamentals of accounting as applied to actual business situations. Introduction to the accounting cycle for service and merchandising firms controlling to purchases and sales with business papers, special journals, and subsidiary ledgers.		

NEW!

BA 268	MARKETING SPECIAL PROJECTS	(1-15)
A continuing practical and student centered marketing project course utilizing material provided by proposing clients. Included in this project is the development of a marketing promotional plan for profit and not for profit companies. This special project is designed to help the student use marketing skills related to primary and secondary data collecting and added researched data, business startup planning, making a business more profitable, and decision making as they relate to the final promotion of a product or business. As in course BA 267 more advanced projects will be assigned and the above skills will be expanded.		

NEW!

BA 269	MARKETING SPECIAL PROJECTS	(1-15)
A continuing practical and student centered marketing project course utilizing material provided by proposing clients, student researched data. Included in this project is the development of a marketing promotional plan for profit and not for profit companies. This special project is designed to help the student use marketing skills related to effective business promotion and or product development. Selling skills and creative planning and implementation training will be utilized for the clients benefit. As in course BA 268 more technical and advanced projects and research will be assigned and the above skills will be expanded to client specifications.		

COMPUTER SCIENCE

Technical Core Classes

These are required for all CS Degrees	
CA100 Intro to Microcomputers (Min grade 2.5)	4
CS102* Visual Basic 1 (Min grade 2.5)	5
CS106 Database Systems (Beg. Access)	5
CS109 PC Hardware 1	5
CS110 Windows Operating System 1	5
CS113 Intro to the Internet	2
CS122 PC Hardware 2	5
CS224 Networking Essentials	5
Total	36 credits

General Education Classes

These are required for all CS Degrees.	
ENG101 English Composition	5
MTH Any Math above MTH102	5
PSY101 General Psychology	
or SOC101 Intro to Sociology	5
SPE101 Speech Essentials	
or SPE110 Communication Behavior	3
Total	18 credits

INTERNET SPECIALIST

CS114 HTML	5
CS115 Javascript/CSS	5
CS161* C++ 1	5
CS203 Adv Graphics	5
CS219 ASP	5
CS 215 JAVA	5
or CS242 XML (Web Publishing 3)	5
CS243 Web Animation	5

Any 2 of the following:

CS213 Adv Internet	5
CS223 UNIX	5
CS228 Windows 2000 Server	5
CS229 Webmaster (requires 228)	5
Total	99 credits

NETWORK ADMINISTRATION

CS213	Advanced Internet	5
or CS221	SQL	5
CS222	Novell 1	5
CS223	Unix	5
CS227	Windows Pro	5
CS228	Windows Server	5
CS230	Active Directory Service	5
CS231	Network Infrastructure Administration	5
CS232	Windows Network Security	5
Total		94 credits

PROGRAMMING

CS161*	C++ 1	5
CS162*	C++ 2	5
CS202	Visual Basic 2	5
CS212	Visual Basic 3	5
CS215	JAVA	5
or CS261	Visual C++	5
CS260	Data Structures in C++	5

10 Credits of CS Dept approved electives (See catalog for list)

Total		94 credits
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INFORMATION SPECIALIST

CS114	HTML	5
CS202	Visual Basic 2	5
CS206	Database Systems 2 (Access 2)	5
CS219	Active Server Pages	5
CS221	SQL 1	5
CS225	SQL 2	5
CS228	Windows Server	5
CS229	WebMaster	5

94 credits

SOFTWARE SPECIALIST

CA103	Presentation Graphics	2
CA124	Int Spreadsheets	2
CA172	Word Processing	4
CS150	Computer Security	5
CS202	Visual Basic 2	5
CS203	Adv Graphics/Multimedia	5
CS206	Database Systems 2	5
CS207	Word Implementation	5
CS208	Advanced Spreadsheets	5
CS195.2	Work based Learning	4
Total		94 credits

CS150 COMPUTER SECURITY (5)

This class covers the basics of computer security. Students will learn about virus protection, installing security patches, using firewalls to protect networks, cryptography and Public Key Infrastructure (PKI), and legal issues. *Prerequisites:* CS 224 networking Essentials, or Instructor's permission.

CS230 ACTIVE DIRECTORY (5)

This course is designed to provide students with the knowledge and skills necessary to install, configure, and administer Microsoft Windows 2000 Active Directory directory services. The course also focuses on implementing Group Policy and performing the Group Policy-related tasks that are required to centrally manage users and computers. *Prerequisites:* CS 227 or 228. All prerequisites must be passed with a 2.0 or better before taking this class.

CS231 NETWORK INFRASTRUCTURE ADMINISTRATION (5)

This course will prepare students to install, manage, monitor, configure, and troubleshoot DNS, DHCP, Remote Access, Network Protocols, IP Routing, and WINS in a Windows network infrastructure. In addition, this class will prepare students to manage, monitor, and troubleshoot Network Address Translation and Certificate Services. It also prepares the students to pass one of the MCSA/MCSE exams. *Prerequisite:* CS 227 Windows Professional, CS224 Networking Essentials. All prerequisites must be passed with a 2.0 or better before taking this class.

CS232 WINDOWS SECURITY (5)

This course will prepare students to design network security solutions. These solutions include analyzing business requirements, identifying security needs, and applying the security recommendations to assist in the control and monitoring of network service resources. The students will also learn how to use critical thinking and troubleshooting tools to troubleshoot security problems throughout the network. This class will also help to prepare students to pass one of the Windows Security exams. *Prerequisite:* CS 227 Professional, CS224 Networking Essentials or Instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

CS243 WEB ANIMATION (5)

This class covers the basics of 2D Animation for use on the Web. Students will learn Flash, a timeline-based 2D animation application. The class will introduce both motion graphic techniques and cartoon animation techniques. *Prerequisites:* CS 203 Advanced Graphics, or Instructor's permission.

CS261 VISUAL C++ (5)

A course in MFC Programming with C++ and Visual C++ will help students learn to program using C++ Standard Template Libraries with MFC. Students also learn to use windows object-oriented development techniques for large applications. This course is intended for students who are already familiar with C++ language. All prerequisites must be passed with a 2.0 or better before taking this class. *Prerequisite:* CS 162.

IT200 IMPLEMENTING WINDOWS PROFESSIONAL (4)

This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows Professional on stand-alone and client computers that are part of a workgroup or domain. In addition, this course provides the skills and knowledge necessary to install and configure Windows Professional to add/remove hardware and provide networking services.

IT201 IMPLEMENTING A WINDOWS NETWORK INFRASTRUCTURE (4)

This course is for support professionals who are new to Microsoft Windows® and will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows Server products. *Prerequisite:* IT 200 or Instructor's approval.

IT202 IMPLEMENTING WINDOWS DIRECTORY SERVICES (4)

This course is designed to provide students with the knowledge and skills necessary to install, configure, and administer Microsoft Windows® 2000 Active Directory™ directory services. The course also focuses on implementing Group Policy and performing the Group Policy-related tasks that are required to centrally manage users and computers. *Prerequisite:* IT 200 or Instructor's approval.

IT203 DESIGNING A SECURE WINDOWS NETWORK (4)

This course provides students with the knowledge and skills necessary to design a security framework for small, medium, and enterprise networks by using Microsoft Windows technologies. *Prerequisites:* IT 200, IT 201 and IT 202 or Instructor's approval.

IT205 ADMINISTERING A MICROSOFT SQL SERVER (4)

This course provides students with the knowledge and skills required to install, configure, administer, and troubleshoot the client-server database management system of Microsoft SQL Server™. *Prerequisite:* IT 200 or Instructor's approval.

CRIMINAL JUSTICE

Due to changes in math numbering, math requirements have been updated in the General Education Requirements for the Criminal Justice Degree.

CRIMINAL JUSTICE

A.A.S. DEGREE CURRICULUM

Technical Core: (37 credits)

CJ 131	Introduction to Criminal Justice	3
CJ 132	Criminal Law	3
CJ 133	Administration of Justice	3
CJ 134	Organization and Administration	3
CJ 135	Traffic Control	3
CJ 136	Delinquent Behavior/Youth	3
CJ 137	Constitutional Law	5
CJ 232	Criminal Investigation	5
CJ 234	Criminal Evidence	3
CJ 236	Criminal Justice Seminar	3
CJ 222	Alcohol/Drug Pharmacology	3

General Education Requirements: (62 credits)

ENG 101	English Composition	5
SPE 101	Speech Essentials	
or SPE 110	Communication Behavior	3
ENG 201	English Composition or	
ENG 205	Technical Writing	5

Social Science courses 15

CA/CS Computer Science Course(s) 4

*MTH Math 106 or above 5

Science 10

Humanities 15

*To be approved by department

CJ 135 TRAFFIC CONTROL (3)

A study of the history of traffic control, routine and emergency traffic procedures. Fundamentals of traffic accident investigation will be covered.

CJ 136 DELINQUENT BEHAVIOR/YOUTH (3)

A study of the causes of juvenile delinquency, Washington law concerning juvenile problems, the role of law enforcement agencies and juvenile delinquency.

CJ 236 LAW ENFORCEMENT SEMINAR (3)

An overview of law enforcement as a profession, civil service testing, seminars on topics and problems encountered in the law enforcement profession. Presentation by visiting professionals in the law enforcement profession.

CJ 222 ALCOHOL/DRUG PHARM/PHYS (3)

Physical response of the human body to alcohol and other drugs, current research findings, basic information and terminology essential for working on treatment teams with physicians and nurses and for communicating with patients and families.

DENTAL HYGIENE PROGRAM

DENTAL HYGIENE PROGRAM

Prerequisite: Math 143, 5 credits; Chemistry 100, 5 credits

Core Classes

DHYG 110	Dental Anatomy	2
DHYG 112	Oral Radiology I	1
DHYG 112.1	Oral Radiology I Lab	1
DHYG 113	Clinical Dental Hygiene Techniques I	1
DHYG 113.1	Clinical Dental Hygiene Techniques I Lab	3
DHYG 114	Dental Health Education	1
DHYG 115	Dental Materials	1
DHYG 115.1	Dental Materials Lab	1
DHYG 116	Head and Neck Anatomy	2
DHYG 121	General Pathology	1
DHYG 121.1	Dental Emergencies Lab	1
DHYG 122	Oral Radiology II	1
DHYG 122.1	Oral Radiology II Lab	1
DHYG 123	Clinical Dental Hygiene Techniques II	1
DHYG 123.1	Clinical Dental Hygiene Techniques II Lab	4
DHYG 125	Restorative Dentistry I	1
DHYG 125.1	Restorative Dentistry I Lab	1
DHYG 126	Pain Control in Dentistry	1
DHYG 126.1	Pain Control in Dentistry	1
DHYG 127	Pharmacology	2
DHYG 131	Oral Pathology	2
DHYG 132	Periodontics I	3
DHYG 134	Clinical Dental Hygiene Techniques III	1
DHYG 134.1	Clinical Dental Hygiene Techniques III Lab	4
DHYG 135	Restorative Dentistry II	1
DHYG 135.1	Restorative Dentistry II Lab	2
DHYG 136	Patient Management	1
DHYG 144	Clinical Dental Hygiene Techniques IV	1
DHYG 144.1	Clinical Dental Hygiene Techniques IV Lab	5
DHYG 146	Restorative Dentistry IV	1
DHYG 146.1	Restorative Dentistry IV Lab	3
DHYG 211	Nutrition in Dentistry	2
DHYG 212	Advanced Clinical Topics	1
DHYG 212.1	Advanced Clinical Topics Lab	1
DHYG 214	Clinical Dental Hygiene Techniques V	1
DHYG 214.1	Clinical Dental Hygiene Techniques V Lab	6
DHYG 215	Ethic, Jurisprudence and Practice Management	2
DHYG 221	Community Oral Health I	3
DHYG 224.1	Clinical Dental Hygiene Techniques VI Lab	6
DHYG 222	Periodontics II	3
DHYG 221.1	Community Oral Health I Lab	2
DHYG 227.1	Nitrous Oxide Administration Lab	1
DHYG 234	Clinical Dental Hygiene Techniques VII	1
DHYG 234.1	Clinical Dental Hygiene Techniques VII Lab	7

Course adjustments have been made in course syllabi

Total Core Credits: 88

Technical Core

SOC 101	Sociology	5
HEC 111	Nutrition	5
BIO 221	Biology	5
BIO 221.1	Biology Lab	1
BIO 222	Anatomy & Physiology	5
BIO 222.1	Anatomy & Physiology Lab	1
BIO 260	Microbiology	5
BIO 260.1	Microbiology Lab	1
Subtotal		28

General Education

ENG 101	English Composition	5
MTH 143	Statistics	5
PSY	Psychology	5
SPE 101	Speech	
or SPE 110	Speech	3
Subtotal		18
Total Credits		134

DHYG 110 DENTAL ANATOMY (2)

Study of the head and neck regions, including dental anatomy. Builds on basic sciences, prepares for the study of the dental sciences, and relates these structures to the clinical practice of dental hygiene. *Prerequisite:* Enrollment in the Columbia Basin College Dental Hygiene Program.

DHYG 112 ORAL RADIOLOGY I (1)

First in a series on oral radiology. Focuses on radiation physics, biology, protection, recognition of anatomical landmarks, and evidence of pathologies. Includes laboratory practice of basic radiology skills; all skills taught to laboratory competence. Builds on basic sciences, prepares for the study of the dental sciences, and relates this information to the clinical practice of dental hygiene. *Prerequisite:* Current enrollment in the Columbia Basin College Dental Hygiene Program and concurrent enrollment in DHYG 112.1 Oral Radiology Lab.

DHYG 112.1 ORAL RADIOLOGY I LAB (1)

First in a series on oral radiology. Focuses on radiation physics, biology, protection, recognition of anatomical landmarks, and evidence of pathologies. Includes laboratory practice of basic radiology skills; all skills taught to laboratory competence. Builds on basic sciences, prepares for the study of the dental sciences, and relates this information to the clinical practice of dental hygiene. *Prerequisite:* Current enrollment in the Columbia Basin College Dental Hygiene Program and Oral Radiology DHYG 112.

DHYG 113 CLINICAL DENTAL HYGIENE TECHNIQUES I (1)

Introduces basic principles and skills used in the practice of dental hygiene, including infection control, patient assessment, and treatment. This course will provide opportunity to gain the knowledge and skills required to perform: exposure and infection control procedures, patient preparation, patient health and risk assessments, intraoral and extraoral examinations, and beginning instrumentation skills. Builds on basic and dental sciences and prepares for clinical dental hygiene practice on community clients. *Prerequisite:* Enrollment in Columbia Basin College Dental Hygiene Program and concurrent enrollment in DHYG 113.1 Clinical Dental Hygiene Techniques Lab.

DHYG 113.1 CLINICAL DENTAL HYGIENE TECHNIQUES LAB (3)

Introduces basic principles and skills used in the practice of dental hygiene, including infection control, patient assessment, and treatment. This course will provide opportunity to gain the knowledge and skills required to perform: exposure and infection control procedures, patient preparation, patient health and risk assessments, intraoral and extraoral examinations, and beginning instrumentation skills. Skills are practiced in a pre-clinical setting on dental models and student partners. All skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice on community clients. *Prerequisite:* Enrollment in Columbia Basin College Dental Hygiene Program and concurrent enrollment in DHYG 113 Clinical Dental Hygiene Techniques.

DHYG 114 DENTAL HEALTH EDUCATION (1)

This course covers the principles and practices of prevention and control of dental disease with emphasis on plaque control, motivation, and patient oral hygiene education. Builds on basic sciences, prepares for the study of the dental sciences, and relates this information to the clinical practice of dental hygiene. *Prerequisite:* Enrollment in the Columbia Basin College Dental Hygiene Program.

DHYG 115 DENTAL MATERIALS (1)

First in a series of courses dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. An introduction to restorative dentistry procedures. Presents the history, composition, chemical and physical properties and use of materials commonly utilized in the dental laboratory and dental operator. Builds on dental sciences. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions, including four-handed dentistry techniques; all skills are taught to laboratory competence. *Prerequisite:* Enrollment in the Columbia Basin College Dental Hygiene Program. Current enrollment in DHYG 115.1 Dental Materials Lab.

DHYG 115.1 DENTAL MATERIALS LAB (1)
First in a series of laboratory courses dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. An introduction to restorative dentistry procedures. Presents the history, composition, chemical and physical properties and use of materials commonly utilized in the dental laboratory and dental operator. Builds on dental sciences. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions, including four-handed dentistry techniques; all skills are taught to laboratory competence. *Prerequisites:* Enrollment in the Columbia Basin College Dental Hygiene Program and current enrollment in DHYG 115 Dental Materials Lab.

DHYG 116 HEAD AND NECK ANATOMY (2)
Study of the clinical recognition of normal oral structures, embryology, and histology of orofacial structures. Builds on basic sciences, prepares for the study of additional dental sciences, and how these structures relate to the clinical practice of dental hygiene. *Prerequisite:* Enrollment in the Columbia Basin College Dental Hygiene Program.

DHYG 121 GENERAL PATHOLOGY (1)
This course focuses on the study of commonly encountered systemic diseases: the etiology, presentation, treatment and effect on dental treatment, including associated emergency procedures. Emphasizes the principles of inflammation, immunology, healing, and repair. Builds on basic sciences and dental sciences, and prepares for the clinical practice of dental hygiene. *Prerequisite:* Successful completion of the first quarter of the first year of the Columbia Basin College Dental Hygiene Program. Concurrent enrollment in Dental Emergencies Lab DHYG 121.1.

DHYG 121.1 DENTAL EMERGENCIES LABORATORY (1)
This course focuses on the study of commonly encountered systemic diseases: the etiology, presentation, treatment and effect on dental treatment, including associated emergency procedures. Emphasizes the principles of inflammation, immunology, healing, and repair. Builds on basic sciences and dental sciences, and prepares for the clinical practice of dental hygiene. *Prerequisite:* Successful completion of the first quarter of the first year of the Columbia Basin College Dental Hygiene Program. Concurrent enrollment in Dental Emergencies Lab DHYG 121.

DHYG 122 ORAL RADIOLOGY II (1)
Second in a series on oral radiology. Focuses on radiographic quality, dental techniques, film processing, mounting, and interpretation of errors. Practices skills on dental manikins and student patients in a preclinical setting; most skills are taught to laboratory competence. Builds on the basic sciences and dental sciences, and prepares for the clinical practice of dental hygiene. *Prerequisite:* Successful completion of the first quarter of the first year of the Columbia Basin College Dental Hygiene Program. Current enrollment in DHYG 121.1.

DHYG 122.1 ORAL RADIOLOGY II LAB (1)
This course is the second in a series on oral radiology. It focuses on radiographic quality, dental techniques, film processing, mounting, and interpretation of errors. Practices skills on dental manikins and student patients in a preclinical setting; most skills are taught to laboratory competence. Builds on the basic sciences and dental sciences, and prepares for the clinical practice of dental hygiene. *Prerequisite:* Successful completion of the first quarter of the first year of the Columbia Basin College Dental Hygiene Program and current enrollment in DHYG 121.

DHYG 123 CLINICAL DENTAL HYGIENE TECHNIQUES II (1)
Second in a series of Clinical Dental Hygiene Techniques. Focuses on dental hygiene treatment planning, effective communication, and preventative client education. All skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene techniques lab. *Prerequisites:* Successful completion of the first quarter of the first year of the Columbia Basin College Dental Hygiene Program. Current enrollment in DHYG 123.1. Current enrollment in the Columbia Basin College Dental Hygiene Program.

DHYG 123.1 CLINICAL DENTAL HYGIENE TECHNIQUES II LAB (4)
Second in a series on clinical practice of dental hygiene. Basic skills of dental hygiene practice, including patient assessment, instrumentation, and treatment are practiced on student partners and clients in a clinical setting; all skills are taught to clinical competence. Expands on the procedures and techniques introduced in preclinical course. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. *Prerequisite:* Successful completion of the first quarter of the first year of the Columbia Basin College Dental Hygiene Program and current enrollment in DHYG 123.

DHYG 125 RESTORATIVE DENTISTRY I (1)
First in a series of courses dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. Presents the composition, chemical and physical properties and use of materials commonly utilized in the dental laboratory and dental operator. Builds on dental sciences. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions, including amalgam manipulation techniques; all skills are taught to laboratory competence. *Prerequisites:* Successful completion of the first quarter of the first year of the Columbia Basin College Dental Hygiene Program. Current enrollment in DHYG 125.1.

DHYG 125.1 RESTORATIVE DENTISTRY I LAB (1)
First in a series of laboratory courses dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. Presents the composition, chemical and physical properties and use of materials commonly utilized in the dental laboratory and dental operator. Builds on dental sciences. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions, including amalgam manipulation techniques; all skills are taught to laboratory competence. *Prerequisites:* Successful completion of the first quarter of the first year of the Columbia Basin College Dental Hygiene Program. Current enrollment in DHYG 125.

DHYG 126 PAIN CONTROL IN DENTISTRY (1)
Covers the pharmacology and physiology of local anesthetic agents and nitrous oxide. Focuses on the anatomy of the nerves, physiology of nerve conduction, and how anesthesia works. Includes effective techniques in the delivery of these agents to the oral cavity as part of the expanded functions for dental hygienists in the state of Washington. Discusses the prevention and management of associated emergencies. Skills are practiced in a clinical setting on student patients; all skills are taught to clinical competence. Builds on the basic sciences and dental sciences, and prepares for the clinical practice of dental hygiene. *Prerequisite:* Enrollment in the Columbia Basin College Dental Hygiene Program.

DHYG 126.1 PAIN CONTROL IN DENTISTRY LAB (1)
Covers the pharmacology and physiology of local anesthetic agents and nitrous oxide. Focuses on the anatomy of the nerves, physiology of nerve conduction, and how anesthesia works. Includes effective techniques in the delivery of these agents to the oral cavity as part of the expanded functions for dental hygienists in the state of Washington. Discusses the prevention and management of associated emergencies. Skills are practiced in a clinical setting on student patients; all skills are taught to clinical competence. Builds on the basic sciences and dental sciences, and prepares for the clinical practice of dental hygiene. *Prerequisites:* Enrollment in the Columbia Basin College Dental Hygiene Program. Enrollment in DHYG 126.

DHYG 132 PERIODONTICS I (3)
First in a series on periodontology. Focuses on the study of the healthy periodontal tissues, and the factors, recognition, and classes of periodontal disease. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. *Prerequisite:* Successful completion of the second quarter of the first year of the Columbia Basin College Dental Hygiene Program.

DHYG 134 CLINICAL DENTAL HYGIENE TECHNIQUES III (1)
Third in a series on Clinical Dental Hygiene Techniques. Focuses on expanding dental hygiene instrumentation skills. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. *Prerequisite:* Successful completion of the second quarter of the first year of Columbia Basin College Dental Hygiene Program. Current enrollment in DHYG 134.1.

DHYG 134.1 CLINICAL DENTAL HYGIENE TECHNIQUES LAB III (4)
Third in series on clinical practice of dental hygiene. Basic skills of dental hygiene practice, including client assessment, instrumentation, and treatment are practiced on clients in a clinical setting; all skills are taught to clinical competence. Expands on the procedures and techniques introduced in previous clinical courses. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. *Prerequisites:* Successful completion of the first and second quarters of the first year of the Columbia Basin College Dental Hygiene Program. Current enrollment in DHYG 134.

DHYG 135 RESTORATIVE DENTISTRY II (1)
Second in a series of courses dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. Preclinical laboratory exercises in the expanded function of the placement and finishing of amalgam and composite restorations on prepared model teeth; all skills taught to laboratory competence. Builds on dental sciences and previous laboratory courses in dental materials. *Prerequisite:* Current enrollment in Columbia Basin College Dental Hygiene Program.

DHYG 135.1 RESTORATIVE DENTISTRY II LAB (1)
Second in a series of courses dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. Preclinical laboratory exercises in the expanded function of the placement and finishing of amalgam and composite restorations on prepared model teeth; all skills taught to laboratory competence. Builds on dental sciences and previous laboratory courses in dental materials. *Prerequisite:* Current enrollment in Columbia Basin College Dental Hygiene Program.

DHYG 136 PATIENT MANAGEMENT (1)
This course focuses on the characteristics of individual patients, motivation, management and interpersonal communication. Treatment modification for the medically or mentally compromised patient, young and geriatric patient in addition to a variety of transitional special needs patients is presented. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. *Prerequisite:* Current enrollment in the sequential curriculum of the Columbia Basin College Dental Hygiene Program.

DHYG 144 CLINICAL DENTAL HYGIENE TECHNIQUES IV (1)
Fourth in a series of Clinical Dental Hygiene Technique courses. Provides an expanded learning experience through discussion of dental hygiene care for the culturally diverse, elderly, and seminar study of clinical cases. *Prerequisite:* Current enrollment in of the Columbia Basin College Dental Hygiene Program.

DHYG 144.1 CLINICAL DENTAL HYGIENE TECHNIQUES IV LAB (5)
Fourth in a series of Clinical Dental Hygiene Technique courses. Provides an expanded learning experience through discussion of dental hygiene care for the culturally diverse, elderly, and seminar study of clinical cases. *Prerequisite:* Current enrollment in of the Columbia Basin College Dental Hygiene Program.

DHYG 146 RESTORATIVE DENTISTRY IV (1)
Third course dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. Allows for case presentations and laboratory exercises all skills taught to laboratory competence. Builds on dental sciences and previous laboratory courses in dental materials. *Prerequisite:* Enrollment Columbia Basin College Dental Hygiene Program.

DHYG 146.1 RESTORATIVE DENTISTRY IV LAB (3)
Third course dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. Allows for case presentations and laboratory exercises all skills taught to laboratory competence. Builds on dental sciences and previous laboratory courses in dental materials. *Prerequisite:* Enrollment Columbia Basin College Dental Hygiene Program and DHYG 146.

DHYG 212 ADVANCED CLINICAL TOPICS (1)
Specific advanced skills in clinical dental hygiene for periodontally involved and implant patients are discussed and demonstrated; all skills are taught to laboratory competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. This course is offered on a *Prerequisite:* Enrollment in the Columbia Basin College Dental Hygiene Program.

DHYG 212.1 ADVANCED CLINICAL TOPICS (1)
Specific advanced skills in clinical dental hygiene for periodontally involved and implant patients are discussed and demonstrated; all skills are taught to laboratory competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. *Prerequisite:* Enrollment in the Columbia Basin College Dental Hygiene Program.

DHYG 214 CLINICAL DENTAL HYGIENE TECHNIQUES V (1)
Fifth in a series of Clinical Dental Hygiene Technique courses. Provides an expanded learning experience through discussion of dental hygiene care for the culturally diverse, elderly, and seminar study of clinical cases. *Prerequisite:* Current enrollment in of the Columbia Basin College Dental Hygiene Program.

DHYG 214.1 CLINICAL DENTAL HYGIENE TECHNIQUES V LAB (6)
Fifth in a series of Clinical Dental Hygiene Technique courses. Provides an expanded learning experience through discussion of dental hygiene care for the culturally diverse, elderly, and seminar study of clinical cases. *Prerequisite:* Current enrollment in of the Columbia Basin College Dental Hygiene Program.

DHYG 221 COMMUNITY ORAL HEALTH I (3)
Examines the principles of community health, including assessment, planning, implementation, and evaluation of healthcare, with an emphasis on oral health. Builds on knowledge of ethics, basic and dental sciences, and clinical dental hygiene practice. Provides the knowledge and skills necessary to function in a community health setting. *Prerequisite:* Enrollment in the Columbia Basin College Dental Hygiene Program.

DHYG 221.1 COMMUNITY ORAL HEALTH I LAB (2)
Supervised clinical practice of dental hygiene in a community health setting. This course is offered on a Credit/No Credit basis only. *Prerequisite:* Successful completion of the second quarter of the second year of the Columbia Basin College Dental Hygiene Program.

DHYG 222 PERIODONTICS II (3)
Second in a series on periodontology. Provides background knowledge of the treatment of periodontal disease, including concepts concerning treatment planning and case presentation. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. *Prerequisite:* Successful completion of all of first quarter of the second year of the Columbia Basin College Dental Hygiene Program.

DHYG 224.1 CLINICAL DENTAL HYGIENE TECHNIQUES VI LAB (6)
Fifth in a series of Clinical Dental Hygiene Technique courses. Provides an expanded learning experience through discussion of dental hygiene care for the culturally diverse, elderly, and seminar study of clinical cases. *Prerequisite:* Current enrollment in of the Columbia Basin College Dental Hygiene Program.

DHYG 227.1 NITROUS OXIDE ADMINISTRATION LAB (1)
Covers the pharmacology and physiology of local anesthetic agents and nitrous oxide. Focuses on the anatomy of the nerves, physiology of nerve conduction, and how anesthesia works. Includes effective techniques in the delivery of these agents to the oral cavity as part of the expanded functions for dental hygienists in the state of Washington. Discusses the prevention and management of associated emergencies. Skills are practiced in a clinical setting on student patients; all skills are taught to clinical competence. Builds on the basic sciences and dental sciences, and prepares for the clinical practice of dental hygiene. *Prerequisite:* Enrollment in the Columbia Basin College Dental Hygiene Program.

DHYG 234 CLINICAL DENTAL HYGIENE TECHNIQUES VII (1)
Seventh in a series of Clinical Dental Hygiene Technique courses. Provides an expanded learning experience through discussion of dental hygiene care for the culturally diverse, elderly, and seminar study of clinical cases. *Prerequisite:* Current enrollment in of the Columbia Basin College Dental Hygiene Program.

DHYG 234.1 CLINICAL DENTAL HYGIENE TECHNIQUES VII LAB (7)
Seventh in a series of Clinical Dental Hygiene Technique courses. Provides an expanded learning experience through discussion of dental hygiene care for the culturally diverse, elderly, and seminar study of clinical cases. *Prerequisite:* Current enrollment in of the Columbia Basin College Dental Hygiene Program.

ENGINEERING TECHNOLOGY PROGRAM

A.A.S. DEGREE CURRICULUM

Prerequisite: qualify for MTH 95

Technical Core:

ENT 111	Intro to Engineering	5
ENT 116	Basic Drafting	5
ENT 121	Engineering Fundamentals	4
ENT 122	Materials	3
ENT 126	Graphical Analysis	5
ENT 134	Surveying	6
ENT 135	Statics	5
ENT 136	Advanced Drafting	4
ENT 214	Strength of Materials	5
ENT 216	Mechanical Drafting & Design	5
ENT 219	Construction Estimating	1
ENT 224	Structures	5
ENT 226	Architecture/Structural Drafting	5
ENT 229	Construction Specifications	2
ENT 236	Design	5
ENT 238	Electricity	5

Technical Support:

MTH 95	Intermediate Algebra	5
MTH 113	Trigonometry or	5
MTH 155	may substitute for MTH 113	5
MTH 154	Precalculus I	5
PHY 105	General Physics I	5
PHY 105.1	General Physics I Lab	5
PHY 106	General Physics II	5
PHY 106.1	General Physics II Lab	5
PHY 107	General Physics III	5
PHY 107.1	General Physics Lab or	5
ENG 205	Technical Writing	5
Computer Science Elective	(As approved by the ENT Dept.)	5

General Education:

ENG 101	English	5
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Students should select one class from each of the following two groups to meet the program requirement.

Group 1

SPE 101	Speech Essential	3
SPE 102	Speech Essentials	5
SPE 110	Communication Behavior	3
SPE 120	Speech Multi-Media	3
SPE 260	Multicultural Communications	5

Group 2

PSY 100	Applied Psych	3
PSY 101	General Psych	5
PSY 201	Social Psych	5
BA 271	Human Relations in Business	5
Total Credits		116-120

COMPUTER AIDED DRAFTING (CAD) CERTIFICATE CURRICULUM

Prerequisite: qualify for MTH 95

Technical Core:

ENT 171.1	Technical Drafting	3
ENT 172.1	Intermediate Technical Drafting	3
ENT 267	AutoCAD I	3
ENT 268	AutoCAD II	3
ENT 269	Visual LISP	3
ENT 270	3-D	3

Select 2 of the following:

ENT 271	Drawing Production	3
ENT 272	Advanced 3-D	3
ENT 273	Advanced CAD	3
ENT 299	Special Problems	3

Technical Support:

MTH 95	Intermediate Algebra	5
MTH 113	Geometry/Trigonometry	5

General Education:

ENG 101	English	5
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Students should select one class from each of the following two groups to meet the program requirement

Group 1

SPE 101	Speech Essentials	3
SPE 102	Speech Essentials	5
SPE 110	Communication Behavior	3
SPE 120	Speech Multi-Media	3
SPE 260	Multicultural Communications	5

Group 2

PSY 100	Applied Psych	3
PSY 101	General Psych	5
PSY 201	Social Psych	5
BA 271	Human Relations in Business	5
Total Credits		41 - 45

ENGLISH AS A FOREIGN LANGUAGE (EFL)

This is a new program.

EFL 096 English Read/Write I (5)

This course is designed to teach non-native speakers of English the fundamentals of writing a well-developed and grammatically correct paragraph and increase their ability to read and comprehend academic texts. *Prerequisites:* High school or GED completion and ASSET scores of 32-34 in reading or TABE scores that place in Reading 91.

EFL 097 English Read/Write II (5)

This course is designed to strengthen the academic reading and writing skills of non-native speakers of English. Emphasis will be on writing a well-developed and grammatically correct essay and reading academic texts. *Prerequisites:* EFL 96, or instructor's permission.

ENVIRONMENTAL SCIENCE

*Environmental Science has changed from
Sci 100.0 and Sci 100.1 to ENVS 100.0 and ENVS 100.1*

ENVS 100 ENVIRONMENTAL SCIENCE (4)

A multidisciplinary course designed to provide both the non-science and science major the background necessary to understand environmental problems that have arisen due to human activities. Topics include: food chains; energy production; nutrient cycles; forest and wildlife management; population demographics; air and water pollution; ozone depletion and global warming. Lab and lecture must be taken concurrently.

ENVS 100.1

ENVIRONMENT SCIENCE LAB

FIRE SCIENCE

DAY PROGRAM CURRICULUM

Technical Core:

FCA 105	Hydraulics	3
FCA 120	Fire Investigation	3
FCA 137	Fire Protection Systems	3
FCA 152	Building Construction	3
FCA 160	Fire Ground Tactics	3
FCA 177	Wildland/Urban Interface	3
FCA 190	Intro to Fire Inspection/Codes	3
FS 251	Firefighter I Academy	23
IFA 111	Emergency Medical Technician	10
Sub Total		54

General Education:

ENG 101	English Composition	5
CHM 100	Survey of Chemistry	5
PSY 100	Applied Psychology	3
ENG 205	Technical Writing	5
MTH 130	Math Appreciation	5
or		
MTH 143	Basic Statistics	5
PS 100	American Government	5
or		
PS 104	State and Local Gov.	5
CS 100	Introduction to Computers	4
PSY 101	General Psychology	5
or		
SOC 101	Intro to Sociology	5
SPE 110	Communication Behavior	3
Subtotal		40
Total	Fire Science Day Program	94

EVENING PROGRAM CURRICULUM

Technical Core:

FS 111	Fire Administration	3
FS 121	Fire Tactics I*	3
FS 131	Intro to Fire Inspections*	3
FS 141	Hazardous Materials I	3
FS 151	Hazardous Materials II	3
FS 211	Building Construction*	3
FS 222	Fire Tactics II	3
FS 231	Fire Protection Equipment*	3
FS 241	Fire Investigation*	3
Subtotal		27

Technical Support:

ENG 205	Technical Writing	5
PS 100	American Government	5
or		
PS 104	State and Local Gov.	5
BA 262/		
BA 271	Principals of Management	5
SOC 101	Introduction to Sociology	5
Subtotal		20

General Education:

ENG 101	English Composition	5
ENG 201	English Composition	5
SPE 101	Essentials of Speech	3
PSY 101	General Psychology	5
MTH	Math above 100	5
Subtotal		23

*Courses may also be available during the day.

Electives:

(Classes number 100 and above)		
	EMT Certification	10
	Promotional Exams	
	Paramedic classes	
	Fire Science Training Courses	
	Work Experience	
Subtotal		20
Total	Fire Science Evening Program	90

GENERAL ENGINEERING

GE 281 STATICS

Analysis of force systems in static equilibrium. Topics include force vectors, equilibrium of particles and rigid bodies, structural analysis, distributed forces, friction, center of gravity, moments of inertia. *Prerequisites:* PHY 201/201.1 and MTH 231.

HISTORY

NEW!

HIS 115 [S/B] HISTORY OF THE MODERN MIDDLE EAST (5)
An introduction to the history of the modern Middle East. Topics covered include: an introduction to Islam as a polity; Arab Muslim societies, past and present; Islamic law; the Ottoman Empire and societies; and age of nation-states and the end of the Empires; economics of the region.

INTERCULTURAL STUDIES

NEW!

ICS 100 INTERCULTURAL STUDIES 100 (3)
An introduction to the history, culture, geography, art, and language of a Spanish-speaking country, followed by a trip to the country studied for a first-hand experience

LITERATURE

LIT 180 MULTICULTURAL LITERATURE (5)

Credit changed from 3 to 5
Introduction to the multicultural literatures of the United States (i.e., African-American Literature, Native American Literature, Hispanic-American Literature, Asian American Literature). Completion of or concurrent enrollment in English 101 is required.

MATHEMATICS

NEW NUMBER (OLD NUMBER)	COURSE DESCRIPTION	PREREQUISITE
91(91)	Beginning Algebra	Math 84 [^]
95(95)	Intermediate Algebra	Math 91 [^] *
96(96)	Algebra Review I	Math 84 [^]
97(97)	Algebra Review II	Math 96 [^] &
98(98)	Algebra Review III	Math 97 [*]
NOTE: MATH 96,97,98 IS A 3 QUARTER SEQUENCE THAT COVERS MATH 91 & 95 MATERIAL.		
100(100)	Algebraic Tools for Vocational Application	Math 84 [^]
102(102)	Geometric Tools for Vocational Application	Math 100
106(106)	Business Math	Math 84 [^]
113(103)	Geometry/Trigonometry	Math 95 [^] *
121(211)	Structure of Elementary Math	Math 95 [^] *
122(212)	Informal Geometry for Elementary Teachers	Math 121 [*]
130(110)	Math Appreciation	Math 95 [^] *
143(143)	Statistics	Math 95 [^] *
147(200)	Finite Math	Math 95 [^] *
154(104)	Precalculus I	Math 95 [^] *
155(105)	Precalculus II	Math 154 [^] *
157(107)	Precalculus I & II	Math 95 [^] *
210(210)	Basic Calculus	Math 154 [^] *
231(201)	Calculus/Analytic Geometry I	Math 155 or 157 [^] *
232(202)	Calculus/Analytic Geometry II	Math 231 [*]
233(203)	Calculus/Analytic Geometry III	Math 232 [*]
234(204)	Multi-Variable Calculus	Math 233 [*]
243(213)	Linear Algebra	Math 231 [*]
246(216)	Discrete Structures	Math 154 [^] *
254(254)	Differential Equations	Math 233 [*]

* REQUIRES A 2.0 OR BETTER GRADE IN PREREQUISITE

[^] OR ASSET PLACEMENT

& GRADE OF 1.5 OR BETTER IN MATH 91 AND INSTRUCTOR'S PERMISSION

MTH 155 PRECALCULUS II

Precalculus II is the second quarter of the precalculus sequence. Precalculus II is predominantly trigonometry. The topics include trigonometric functions and their inverses, solving triangles, circular functions, identities, conditional equations, complex numbers in polar form, parametric and polar equations, systems of equations, matrices and determinants, and vectors. *Prerequisite:* grade of 2.0 or better in MTH 154.

MTH 233 CALC/ANALYTIC GEOM III

A continuation of MTH 232. Topics include: infinite sequences and series, conics, parametric equations, polar coordinates, arc length, vectors in two and three dimensions, surfaces, cylindrical coordinates, and spherical coordinates. *Prerequisite:* grade of 2.0 or better in MTH 232 or equivalent.

MTH 234 MULTI-VARIABLE CALCULUS

An introduction to the calculus applied to functions of two or three variables. Topics include three-dimensional space curves, vector-valued functions, curvature, motion of a particle in space, partial derivatives, differentials, directional derivatives, multiple integration, vector fields, line integrals, Green's Theorem, surface integrals, the Divergence Theorem and Stoke's Theorem. *Prerequisite:* grade of 2.0 or better in MTH 233 or equivalent.

MTH 210 BASIC CALCULUS

Designed for non-physical science majors such as business, management, behavioral science and social science. Topics include: relations, functions, exponential and logarithmic functions, derivatives and their applications, integrals and their applications, and functions of several variables. *Prerequisite:* grade of 2.0 or better in MTH 154 or ASSET test placement.

MTH 121 STRUCTURE OF ELEM MATH
 An elementary introduction to set theory, numeration systems, properties of the real number system and its sub-systems, problem solving techniques, logic and applications of mathematics. Primarily for elementary education majors. This course satisfies the quantitative skills requirement for the AA degree provided that Math 122 is also successfully completed. *Prerequisite:* grade of 2.0 or better in Math 95 or ASSET test placement.

MTH 122 INFORMAL GEOM FOR ELEMEN
 An informal approach to the basic ideas of geometry, including construction, congruence and similarity, transformations, symmetry, measurement, and coordinate geometry. This course satisfies the quantitative skills requirement for the A.A. degree, provided that MTH 121 has also been successfully completed. *Prerequisite:* grade of 2.0 or better in MTH 121.

MTH 243 LINEAR ALGEBRA
 Designed for the physical science majors in fields such as mathematics, engineering and physics. Topics include vectors, matrices and determinants, lines and planes in 3-space, linear systems, vector spaces, linear transformations, eigenvalues and eigenvectors. *Prerequisite:* grade of 2.0 or better in MTH 231.

MTH 246 DISCRETE STRUCTURES
 This course is an introduction to discrete mathematics, trees, graphs, elementary logic, and combinatorics with applications to computer science. *Prerequisite:* grade of 2.0 or better in MTH 154. A knowledge of computers and programming would be beneficial but is not required.

MTH 254 DIFFERENTIAL EQUATIONS
 An introduction to techniques used in solving linear differential equations. Techniques studied will include separable, integration factors, LaPlace transforms and series solutions. Numerical methods will be introduced to solve linear and non linear differential equations. *Prerequisite:* grade of 2.0 or better in Math 233 or concurrent enrollement.

PARALEGAL

Due to changes in math numbering, math requirements have been updated in the General Education Requirements for the Paralegal Degree.

EVENING PROGRAM ONLY

PARALEGAL A.A.S. DEGREE CURRICULUM

Technical Core:

PL 101	Intro to Paralegalism	5
PL 102	Legal Procedures	3
PL 105	Law Office Management	3
PL 107	Interview/Investigation	3
PL 121	Contract Law	
PL 122	Contract Law	
PL 123	Contract Law	9
PL 131	Torts	
PL 132	Torts	
PL 133	Torts	9
PL 146	Paralegal Ethics	3
PL 147	Computers In A Law Envir	1
PL 147.1	Computers In A Law Envir Lab	1
PL 150	Intro to Legal Writing	3
PL 151	Legal Research & Writing	5
PL 152	Advanced Legal Writing	5

Technical Core Electives:

A minimum of 27 credits of additional paralegal courses.

General Education:

ENG 101	English Composition	5
*MTH	Math 106 or above	5
PSY 101		
or SOC 101		
or PSY 201		5
SPE 101		
or SPE 110		
or SPE 120		3

*To be approved by department

Electives: (choose 4 credits)

CA 100	Intro to Microcomputers	4
CS 106	Database Systems 1	5
BT 101	Keyboarding I	2
BT 102	Keyboarding II	2
BT 109	Keyboarding/Skillbuild	2
BT 173		
or BT 174		
or BT 175	Word Processing	4

PL 147 COMPUTERS IN A LAW ENVIRONMENT (1)
 A course that will assist the student to use standard and specialized computer software to complete legal documents, conduct research, and coordinate paralegal activities. Must be taken concurrently with PL 147.1. *Prerequisite:* CA 100 or Instructor's permission.

PL 147.1 COMPUTERS IN A LAW ENVIRONMENT LAB (1)
 A lab that provides an opportunity to have hands on interaction with standard and specialized computer software to complete legal documents, conduct research, and coordinate paralegal activities. This lab is taken with PL 147.0 course.

PHYSICS

PHY 105 GENERAL PHYSICS I (4)
 This course is designed for those students that are not majoring in a four-year engineering or physical science degree. Topics include measurement and units, vectors, motion in one and two dimensions, Newton's laws, work and energy, momentum and collisions, circular motion, gravity, rotational motion. *Prerequisite:* MTH 113 or equivalent with a 2.0 or higher.

PHY 201 ENGINEERING PHYSICS I (4)
 Physics for engineering or physical science majors. Mechanics. *Prerequisite:* MTH 231, or equivalent, with a G.P.A. of 2.0 or better.

PHY 202 ENGINEERING PHYSICS II (4)
 Mechanics, thermodynamics and electromagnetism. *Prerequisite:* MTH 232 and PHY 201/201.1.

PSYCHOLOGY

PSY 230 HUMAN SEXUALITY (5)
 A survey of human sexuality from biological, psychological, and sociocultural perspectives. Topics include sexual orientation, paraphilics and sexually transmitted diseases.

September 2002

M	T	W	TH	F	S
2	3	4	5	6	7
9	10	11	12	13	14
16	17	18	19	20	21
23	24	25	26	27	28
30					

2002 - 2003 Instructional/Faculty Days				
	2002	2003		
	Fall	Winter	Spring	Summer
Instructional	54	52	54	39
Faculty	60	52	55	39

October 2002

M	T	W	TH	F	S
	1	2	3	4	5
7	8	9	10	11	12
14	15	16	17	18	19
21	22	23	24	25	26
28	29	30	31		

November 2002

M	T	W	TH	F	S
				1	2
4	5	6	7	8	9
11	12	13	14	15	16
18	19	20	21	22	23
25	26	27	28	29	30

December 2002

M	T	W	TH	F	S
2	3	4	5	6	7
9	10	11	12	13	14
16	17	18	19	20	21
23	24	25	26	27	28
30	31				

January 2003

M	T	W	TH	F	S
		1	2	3	4
6	7	8	9	10	11
13	14	15	16	17	18
20	21	22	23	24	25
27	28	29	30	31	

February 2003

M	T	W	TH	F	S
					1
3	4	5	6	7	8
10	11	12	13	14	15
17*	18	19	20	21	22
24	25	26	27	28	

March 2003

M	T	W	TH	F	S
					1
3	4	5	6	7	8
10	11	12	13	14	15
17	18	19	20	21	22
24	25	26	27	28	29
31					

April 2003

M	T	W	TH	F	S
	1	2	3	4	5
7	8	9	10	11	12
14	15	16	17	18	19
21	22	23	24	25	26
28	29	30			

May 2003

M	T	W	TH	F	S
			1	2	3
5	6	7	8	9	10
12	13	14	15	16	17
19	20	21	22	23	24
26	27	28	29	30	31

June 2003








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2	3	4	5	6	7
8	9	10	11	12	13
16	17	18	19	20	21
23	24	25	26	27	28
30					

July 2003

M	T	W	TH	F	S
	1	2	3	4	5
7	8	9	10	11	12
14	15	16	17	18	19
21	22	23	24	25	26
28	29	30	31		

August 2003

M	T	W	TH	F	S
				1	2
4	5	6	7	8	9
11	12	13	14	15	16
18	19	20	21	22	23
25	26	27	28	29	30

-  Beginning of Quarter
-  End of Quarter
-  Graduation Ceremony
-  Employee Inservice (non attendance for students)
-  Holiday (College Closed)
-  Advising Day
-  Final Exams

* Monday night classes will meet on President's Day, February 17, 2003



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TDD/TTY: . . (509) 546-0400

CBC Richland Campus

1011 Northgate
Richland, Washington 99352-3540
Phone: . . . (509) 946-9669

Chase Centre

1600 North 20th Avenue
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Phone: . . . (509) 547-0511, ext. 2222

Access CBC on the Internet:

www.cbc2.org