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# Chemeketa

## Community College

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### **We've made some changes**

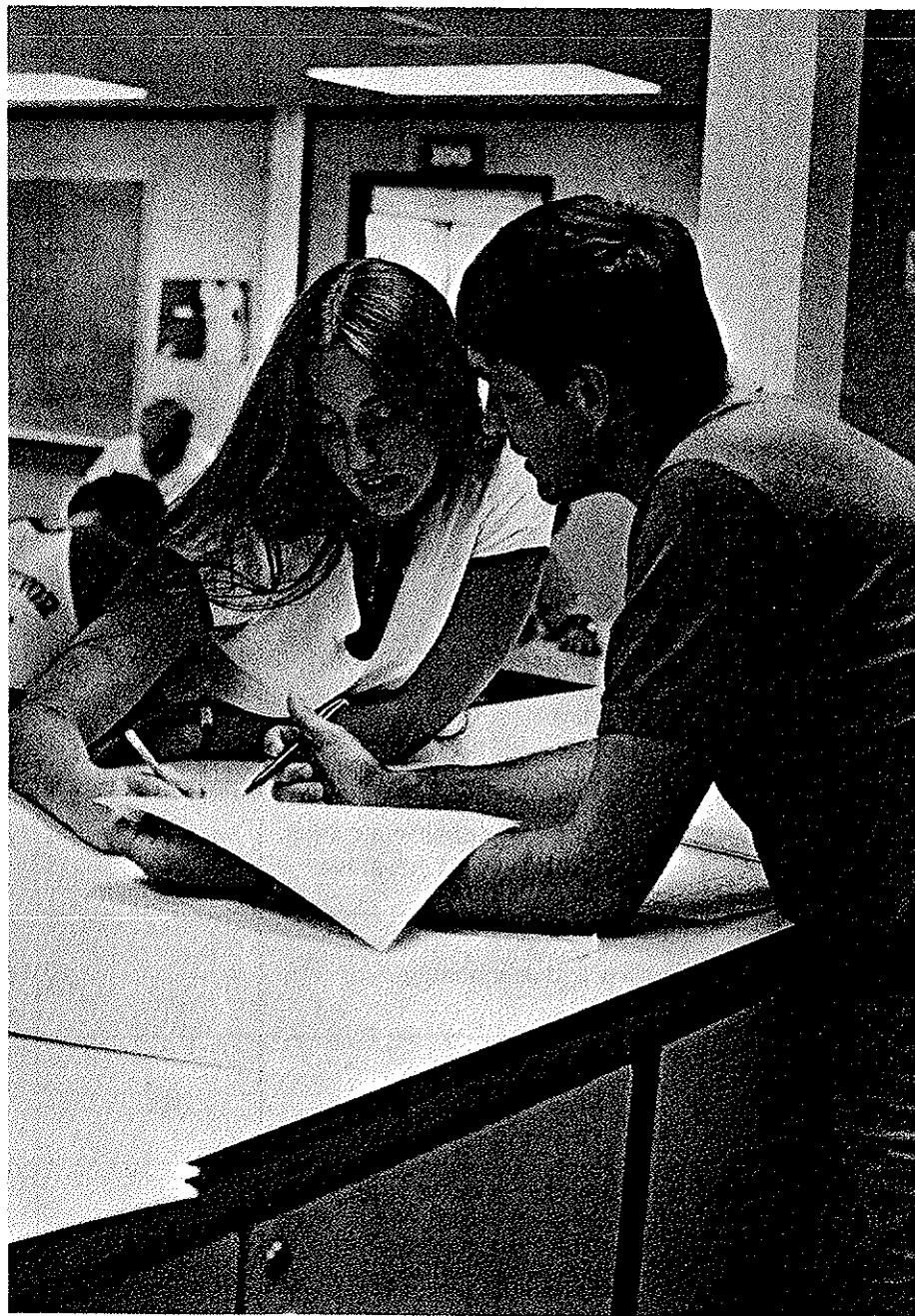
At Chemeketa, we recognize that our college catalog can never be complete, for we are an ever-changing, flexible community college.

We have made some changes in the information included in our 1982-83 catalog which was published in June, 1982. Rather than publishing a new catalog for the 1983-84 academic year, we have prepared this supplement which lists major revisions and additions made through April 15, 1983.

We also know that other changes have occurred since that date, so for up-to-date information, please contact your academic advisor or a Chemeketa counselor.

For more information, call Salem, 399-5155 or Chemeketa centers in Dallas, 623-5567; McMinnville, 472-9482; Stayton, 769-7738; Woodburn, 981-8820.

The page numbers listed with the headings in this supplement refer to pages in the 1982-83 catalog.



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## **1983-84 Supplement to the Catalog**

# Academic Calendar (page v)

	Summer 1983	Fall 1983	Winter 1984	Spring 1984
Registration	June 20	Sept. 19-23	Jan. 3	Mar. 26
Evening, non-credit, and off-campus classes begin	June 20	Sept. 26	Jan. 3	Mar. 26
Salem campus day credit classes begin	June 21	Sept. 26	Jan. 4	Mar. 27
Last day to register and to make class or program changes	June 24	Oct. 14	Jan. 20	Apr. 13
Holidays	July 4	Nov. 11 Nov. 24-25		May 28
Last day to withdraw from classes without responsibility for grades	July 22	Nov. 28	Feb. 24	May 18
Review and examination		Dec. 12-15	Mar. 12-15	June 4-7
End of term	Aug. 12	Dec. 16	Mar. 16	June 8
Graduation				June 8

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## About Chemeketa . . .

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**How to Enroll at Chemeketa** (page 3)  
See **How to Enroll at Chemeketa** in the current schedule of classes.

**Tuition** (page 4)  
(399-5011)

Tuition and fees are due in full at the time of registration unless a student has made special arrangements with the business office.

Students who carry 12 or more credit hours per term are considered full-time students academically, but when paying tuition, those enrolling in 10 or more credit hours are classified as full-time students.

Tuition rates for 1983-84 are

Full-time in-district students . . . . . \$200 per term

Part-time in-district students . . \$20 per credit hour

Full-time out-of-district but in-state students . . . . . \$300 per term

Part-time out-of-district but in-state students . . \$30 per credit hour

Full-time out-of-state students . . . . . \$750 per term

Part-time out-of-state students . . \$75 per credit hour

Non-credit courses and workshops . . . See current schedule of classes.

Tuition rates for non-credit classes apply even for persons who are considered full-time students.

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## Degrees, Certificates, and Graduation Requirements

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**Associate in Arts Degree** (page 6)

**Add:**  
Effective for students entering Chemeketa in the fall of 1983 and thereafter, three credit hours of computer study are required for the Associate in Arts degree.

**Change requirement 5) to:**

5) Effective for students entering Chemeketa in the fall of 1983 and thereafter, three terms of physical education.

**Associate in Science Degree** (page 6)

**Add:**  
Effective for students entering Chemeketa in the fall of 1983 and thereafter, program-related instruction on computers or three credit hours of computer study are required for the Associate in Science degree as a part of the required courses and credit hours listed for each program.

**Grading System** (page 7)

Chemeketa has added a Z grade (Grade in Progress) for courses which continue beyond the end of a term. When the course is completed, a final grade replaces the Z.

**Credit by Examination** (page 7)  
(399-5120)

The cost for taking challenge examinations is now \$5 per credit hour.

**Add:**  
**Advanced Placement**  
(399-5120)

Students who have taken advanced placement courses in high school and achieved acceptable scores on the examinations may be awarded credit in some courses. Contact the counseling center about which courses and scores Chemeketa will accept.

**Add:**  
**College Level Examination Program (CLEP)**  
(399-5120)

Students may be awarded credit for some college courses through the CLEP program. Contact the counseling center about which examinations and scores Chemeketa will accept.

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## About Student Services

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**Financial Aid** (page 10)  
(399-5018)

For current financial aid information, contact the financial aid office.

**Library/Learning Resource Center**

(page 12)  
(399-5043)

**Planetarium information**  
**Change to:**

Programs for the public are presented in the planetarium/multimedia theater in building 2 on the Salem campus, which also serves as a special classroom. Admission to planetarium shows is adults \$1, children \$.50 and family rate \$2.50.

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## About Community Education

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**Classes for Older Adults** (page 18)  
(399-5139)

**Change to:**

Eligible adults may apply for free Golden Age cards in building 3, room 269, on the Salem campus; at Chemeketa centers or at the first class they attend. These cards allow older students to pay only \$5 tuition plus lab fees for each Chemeketa class they attend.

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## Basic Skill Development and High School Completion

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**General Educational Development (GED)**

(page 20)  
(399-5093)

**Add:**

There is a \$5 registration fee for GED classes.

## Programs of Study

### Automotive Technology

(page 26)

#### Automotive Mechanics Option

Total program hours changed from 95 to 99.

Course No.	Course Title	Credit Hours
<b>Term 1</b>		
Aum051	Basic Auto Engines	6
Aum056	Automotive Shop Safety	1
Aum057	Automotive Brake Systems	3
Com051	Communication Skills I	
	or	
Wr121	English Composition-Exposition	3
Wld097	Welding	2
<b>Term 2</b>		
Aum058	Automotive Steering and Suspension	3
Aum061	Standard Transmission, Clutches and Differentials	5
Aum068	Automotive Accessory Systems	3
Math051	Basic Mathematics	3
Com052	Communication Skills II	
	or	
Wr122	English Composition, Logic and Style	3
<b>Term 3</b>		
Aum052	Automotive Machine Shop	3
Aum066	Fuel Systems and Carburetion I	4
Aum071	Automotive Repair I	4
Aum076	Automotive Electrical Systems I	4
CS101	Computer Environment	3
<b>Term 4</b>		
Aum063	Automotive Transmissions	4
Aum067	Fuel Systems and Carburetion II	4
Aum072	Automotive Repair II	4
Aum087	Advanced Automotive Engines	4
<b>Term 5</b>		
Aum073	Automotive Repair III	4
Aum077	Automotive Electrical Systems II	4
Aum078	Automotive Service Operations	2
Aum086	Automotive Heating and Air Conditioning	4
	General education elective	3
<b>Term 6</b>		
Aum081	Tune Up and Diagnosis	6
Aum082	New Automotive Developments	3
Aum092	Automotive Diesel Engines	4
Psy100	Introduction to Psychology	3

### Civil/Survey Technology

(page 31)

#### Survey Technology Option

The Survey Technology Option of the Civil/Survey Technology program will not be offered in 1983-84. Students interested in surveying are encouraged to consider the Civil-Structural Engineering option.

### Criminal Justice

(page 34)

Criminal Justice Administration Option has been deleted.

General education requirements changed to 37 hours.

Course No.	Course Title	Credit Hours
CS101	Computer Environment	
	or	
Mth133B	Introduction to Programming BASIC	3
	Speech	3
Wr121	English Composition-Exposition	3
Wr227	Technical Writing	3
	Physical education/health	3
	Social science/humanities	18
	Mathematics/Science	4

Core course requirements changed to 27 hours.

CJ100	Survey of the Criminal Justice System	3
CJ101	Introduction to Criminology	3
CJ206	Crime and Delinquency	3
CJ210	Introduction to Criminal Investigation	3
CJ215	Criminal Justice Administration	3
CJ220	Introduction to Substantive Law	3
CJ223	Rules of Evidence	3
CJ227	Introduction to Constitutional Law	3
CJ213 A,B,C,	Crime Scene Technician	3

#### Corrections Option

Professional course requirements changed to 15 hours.

CJ131	Introduction to Penology	3
CJ132	Introduction to Probation and Parole	3
CJ230	Introduction to Juvenile Corrections	3
CJ231	Introduction to Corrections Process	3
CJ232	Introduction to Corrections Casework	3
	General education electives	12

#### Law Enforcement Option

Professional course requirements changed to 15 hours.

CJ110	Introduction to Law Enforcement	3
CJ200	Introduction to Community Relations	3
CJ204	Seminars in Criminal Justice	3
CJ228	Moot Court	3
HE260	Emergency Medical Care - First Response	3
	General education electives	12

# Early Childhood Education

(page 36)

Course No.	Course Title	Credit Hours
<b>Term 1</b>		
Com051	Communication Skills I	
	or	
Wr121	English Composition-Exposition . . . . .	3
ECE060	Introduction to Early Childhood Education . . . . .	3
FL225	Development in Childhood I . . . . .	3
ECE066	Observing and Recording in the Preschool . . . . .	3
Psy100	Introduction to Psychology	
	or	
Psy201	General Psychology . . . . .	3
<b>Term 2</b>		
AH071	Multimedia First Aid or valid First Aid card . . . . .	1
Com053	Technical Report Writing	
	or	
Wr122	English Composition-Logic and Style	
	or	
Wr227	Technical Writing . . . . .	3
ECE062	Development in Childhood II . . . . .	3
ECE067	Observation and Guiding Behavior . . . . .	3
FL233	Family Dynamics . . . . .	3
	Elective . . . . .	3
<b>Term 3</b>		
ECE071	Creative Activities . . . . .	3
ECE072	Learning Experiences . . . . .	4
ECE091	Supervised Field Experience I . . . . .	3
FL222	Partner Relationships . . . . .	3
Soc206	General Sociology . . . . .	3
<b>Term 4</b>		
ECE070	Environments for Young Children . . . . .	3
ECE074	Children's Literature . . . . .	3
ECE080	Home, School and Community . . . . .	3
ECE092	Supervised Field Experience II . . . . .	4
	Elective . . . . .	3
<b>Term 5</b>		
ECE075	Music for Young Children . . . . .	3
ECE079	Child Nutrition . . . . .	2
	or	
FN225	Nutrition . . . . .	4
ECE096	Directed Participation I . . . . .	7
CS131	Introduction to Data Processing	
	or equivalent . . . . .	3
<b>Term 6</b>		
ECE084	The Exceptional Child . . . . .	3
ECE085	Administration of Child Care Centers . . . . .	3
ECE097	Directed Participation II . . . . .	18
	Elective . . . . .	3

# Emergency Medical Technology

(page 41)

Consult advisor about changes in electives.

Course No.	Course Title	Credit Hours
<b>Term 1</b>		
Bi071	Body Structure and Functions I . . . . .	3
EMT050	Emergency Medical Technology I . . . . .	7
Med051	Medical Terminology I . . . . .	3
	Communication elective . . . . .	3
	Psychology elective . . . . .	3
<b>Term 2</b>		
Bi072	Body Structure and Functions II . . . . .	3
EMT060	Emergency Medical Technology III-A . . . . .	5
EMT069	Rescue Fundamentals . . . . .	3
EMT074	Dispatching and Radio Communications . . . . .	3
Med051	Medical Terminology II . . . . .	3
Math051	Basic Mathematics . . . . .	3
<b>Term 3</b>		
EMT061	Emergency Medical Technology III-B . . . . .	5
FrP056	Fire Service Rescue . . . . .	4
Med055	Medical Law and Ethics . . . . .	3
	Business elective . . . . .	3
	Social science elective . . . . .	3
<b>Term 4</b>		
AH059	Survey of Human Disease	
	or	
Med064	Introduction to Medical Science . . . . .	3
EMT062	Emergency Medical Technology III-C . . . . .	6
EMT075	Introduction to Emergency Medical Services . . . . .	3
<b>Term 5</b>		
AH050	Health Occupations Overview . . . . .	1
EMT063	Emergency Medical Technology III-D . . . . .	5
EMT070	Emergency Response Driving . . . . .	1
HE262	CPR Instruction . . . . .	1
HE268	Pharmacodynamics . . . . .	3
	Business elective . . . . .	3
<b>Term 6</b>		
AH080	Crisis Intervention . . . . .	3
EMT064	Emergency Medical Technology IV . . . . .	8
FE205	Job Search Techniques . . . . .	1
	Other electives . . . . .	6

# Fire Protection Technology

(page 43)

## Fire Suppression Option

Hours for program changed from 106 to 98.

Course No.	Course Title	Credit Hours
<b>Term 1</b>		
	General education elective . . . . .	3
Com051	Communication Skills I	
	or	
Wr121	English Composition-Exposition . . . . .	3

EMT051	Emergency Medical Technology I Part A	3
FrP050	Introduction to Fire Protection	3
FrP051	Fire Incident Related Experience	3
PE185	Physical Education	1
<b>Term 2</b>		
EMT052	Emergency Medical Technology II Part B	3
FrP052	Fire Incident Related Experience	3
FrP054	Fire Service Hydraulics	4
FrP055	Elementary Science/Firefighters or	3
GS104	Physical Science or	4
Ch104	General Chemistry or	5
Ph201	General Physics	4
Math052	Introduction to Algebra and Geometry or	3
Mth100	Intermediate Algebra or	4
Mth101	College Algebra	4
PE185	Physical Education	1
<b>Term 3</b>		
Com052	Communications Skills II or	
Sp111	Fundamentals of Speech	3
FrP057	Fire Science or	3
GS105	Physical Science or	4
Ch105	General Chemistry or	5
Ph202	General Physics	4
FrP053	Fire Incident Related Experience	3
FrP056	Fire Service Rescue Practices	4
FrP058	Fire Pump Construction and Operation	3
PE185	Physical Education	1
<b>Term 4</b>		
FrP060	Fundamentals of Fire Prevention	3
FrP061	Fire Incident Related Experience	3
FrP064	Hazardous Materials I	3
PE185	Physical Education	1
	Technical electives*	6
<b>Term 5</b>		
Com053	Technical Report Writing or	
Wr227	Technical Writing	3
FrP062	Fire Incident Related Experience	3
FrP065	Hazardous Materials II	3
FrP066	Building Construction for Fire Suppression	3
PE185	Physical Education	1
	Technical Electives*	3
<b>Term 6</b>		
FrP063	Fire Incident Related Experience	3
PE185	Physical Education	1
Psy101	Psychology of Human Relations	3
	Technical Electives*	9
<b>*Technical Electives</b>		
Bld050	Introduction to Uniform Building Code	3
Bld051	Building Code I	3
Bld052	Building Code II	3
EMT053	Emergency Medical Technology I, Part C	1
For071	Natural Cover Fire Protection	4
FrP070	Fire Fighting Tactics and Strategy	3
FrP071	Fire Protection Systems and Extinguishers	3
FrP072	Fire Codes and Ordinances	3
FrP073	Firefighters Law	2
FrP074	Fire Investigation	3
FrP075	Aircraft Crash/Fire Rescue	1
FrP076	Fire Department Organization and Management	3

FrP077	Fire Service Instructor Training	2
FrP078	Introduction to Training Programs	1
FrP082	Evidence Photography for Fire and Arson Investigation	3
FrP083	Water Distribution Systems	3
FrP085	Industrial Fire Protection	3
FrP086	Advanced Detection and Prevention Systems	3
FrP087	Fire Insurance Fundamentals	3
HE262	CPR Instruction	1

## Fire Prevention/Insurance Risk Inspection Option

Total program hours changed from 106 to 97.

Course No.	Course Title	Credit Hours
<b>Term 1</b>		
Bld050	Introduction to Uniform Building Code	3
Com051	Communication Skills I or	
Wr121	English Composition-Exposition	3
FrP050	Introduction to Fire Protection	3
FrP060	Fundamentals of Fire Prevention or	
FrP080	Fire Prevention Fundamentals	3
	General education elective	3
<b>Term 2</b>		
Com052	Communication Skills II or	
Sp111	Fundamentals of Speech	3
FrP055	Elementary Science for Firefighters or	3
GS104	Physical Science or	4
Ch104	General Chemistry or	5
Ph201	General Physics	4
FrP084	Building Construction for Fire Protection or	
Bld060	Fire Protection for Buildings	3
FrP072	Fire Codes and Ordinances	3
FrP073	Firefighters' Law	2
Math052	Introduction to Algebra and Geometry or	3
Mth100	Intermediate Algebra or	4
Mth101	College Algebra	4
<b>Term 3</b>		
Com053	Technical Report Writing or	
Wr227	Technical Writing	3
FrP057	Fire Science or	3
GS105	Physical Science or	4
Ch105	General Chemistry or	5
Ph202	General Physics	4
FrP074	Fire Investigation	3
FrP083	Water Distribution System	3
FrP280B	Cooperative Work Experience	2
Psy101	Psychology of Human Relations	3
<b>Term 4</b>		
Bld051	Building Code I	3
FrP064	Hazardous Materials	3
FrP071	Fire Protection Systems and Extinguishers	3
FrP081	Fire Prevention Inspection Technical electives*	3
<b>Term 5</b>		
Bld052	Building Code II	3
Bld081	Mechanical Code Inspection I	3

FrP065	Hazardous Materials II	3
FrP280C	Cooperative Work Experience	3
	Technical electives*	3
<b>Term 6</b>		
Bld067	Non-structural Plan Review	3
FrP085	Industrial Fire Protection	3
FrP086	Advanced Detection and Prevention Systems	3
FrP087	Fire Insurance Fundamentals	3
FrP280C	Cooperative Work Experience	3
	Technical electives*	3
<b>*Technical electives</b>		
For071	Natural Cover Fire Protection	4
FrP066	Building Construction for Fire Suppression	3
FrP070	Fire Fighting Tactics and Strategy	3
FrP076	Fire Department Organization and Management	3
FrP077	Fire Service Instructor Training	2
FrP078	Introduction to Training Programs	1
FrP082	Evidence Photography for Fire and Arson Investigation	3
FrP280C	Cooperative Work Experience	3

## Forest Technology

(page 46)

Course No.	Course Title	Credit Hours
<b>Term 2</b>		
<b>Add:</b>		
For085	Forestry Contracts	3
<b>Delete:</b>		
Psy100	Introduction to Psychology	3

## Management

(page 52)

### Management Option

Total program hours changed from 97 to 95.

Course No.	Course Title	Credit Hours
<b>Term 1</b>		
BA101	Business Environment	4
BA211	Financial Accounting I	
	or	
BA051	Accounting Procedures I*	4
OA085	Business English II	3
OA121	Typing I	3
Math061	Business Mathematics**	3
<b>Term 2</b>		
BA212	Financial Accounting II	
	or	
BA052	Accounting Procedures II*	4
BA214	Business Communications**	3
CS131	Introduction to Data Processing	
	or	
CS101	Computer Environment	3
Math062	Applied Business Mathematics**	3
	General education elective	3
<b>Term 3</b>		
BA206	Business Management Principles	3

BA213	Managerial Accounting	
	or	
BA053	Accounting Procedures I*	4
	Business elective	3
BA223	Marketing Principles	3
	General education elective	3
<b>Term 4</b>		
BA215	Cost Accounting	3
BA226	Business Law I	3
CS065	Selecting Data Processing Systems	3
Ec201	Principles of Economics	3
FE205	Job Search Techniques	1
	Business elective	3
<b>Term 5</b>		
BA222	Financial Management	3
BA227	Business Law II	3
BA280	Cooperative Work Experience	
	or	
	Business elective	3
Sp111	Fundamentals of Speech	3
Wr227	Technical Report Writing	3
<b>Term 6</b>		
BA224	Personnel Management	3
BA280	Cooperative Work Experience	
	or	
	Business electives	6
Sp130	Business and Professional Speaking	
	or	
	Approved elective	3
	Business elective	3

\*Students who take the Accounting Procedures sequence must complete BA213 for a business elective before enrolling in BA215.

\*\*College transfer courses may be substituted with approval of the program coordinator.

### Records Management Option

Total program hours changed from 93 to 95.

Course No.	Course Title	Credit Hours
<b>Term 1</b>		
BA081	Records Career Survey	1
BA101	Business Environment	4
Math061	Business Mathematics*	3
OA061	Introduction to Calculators	2
OA084	Business English I	3
	General education elective	3
<b>Term 2</b>		
BA244	Records Management	3
CS131	Introduction to Data Processing	3
Math062	Applied Business Mathematics*	3
OA085	Business English II	3
OA121	Typing I	3
<b>Term 3</b>		
BA211	Financial Accounting I	4
CS072	Systems Analysis I	3
OA116	Office Procedures	3
OA122	Typing II	3
	Business elective	3
<b>Term 4</b>		
BA082	Records Storage and Retrieval	3
BA206	Business Management Principles	3
BA214	Business Communications*	3
	Business elective	3
BA247	Forms, Design, Analysis and Control	3
	General education elective	3
<b>Term 5</b>		
BA226	Business Law I	3
BA246	Micrographics	3
BA251	Office Management	3
BA280	Cooperative Work Experience	3
Com053	Report Writing	3

<b>Term 6</b>		
BA224	Personnel Management	3
BA245	Records Administration	3
BA280	Cooperative Work Experience	3
	Business elective	3
	General education elective	3

\*College transfer courses may be substituted with approval of the program coordinator.

## Medical Assisting

(page 54)

### Health Records Option

Course No.	Course Title	Credit Hours
<b>Term 3</b>		
<b>Add:</b>		
Com051	Communication Skills I or	
OA200	Introduction to Word Processing or	
Psy201	General Psychology or	
Wr121	English Composition-Exposition	3
<b>Delete:</b>		
Math051	Basic Mathematics or	
Com051	Communications Skills I or	
Wr121	English Composition-Exposition or	
Psy201	General Psychology	3

## Nursing

(page 54)

Total program hours changed from 112 to 103.

Course No.	Course Title	Credit Hours
<b>Term 1</b>		
AH050	Health Occupations Overview	1
Bi121	Human Anatomy and Physiology	4
Nur106	Nursing	10
Psy201	General Psychology	3
<b>Term 2</b>		
Bi122	Human Anatomy and Physiology	4
Nur108	Nursing	20
Psy299	Growth and Development	3
<b>Term 3</b>		
Bi124	Medical Microbiology	4
Nur104	Nurse at Work	1
Nur109	Nursing	10
Wr121	English Composition-Exposition	3
<b>Term 4</b>		
Ch140	Physiological Chemistry	3
or		
Ch102 and 103	Chemistry for Allied Health	8
Nur206	Nursing	11
	Elective	3
<b>Term 5</b>		
Nur204A	Nurse at Work	1

Nur208	Nursing	11
	Sociology elective	3
	Elective	3

<b>Term 6</b>		
Nur204B	Nurse at Work	1
Nur209	Nursing	8
	Electives	6

## Office Administration/ Secretarial

(page 56)

### Engineering Secretary Option

Total program hours have changed from 95 to 94.

Course No.	Course Title	Credit Hours
<b>Term 1</b>		
BA101	Business Environment	4
	Mathematics or general education elective	3
OA084	Business English I or	
	General education elective	3
OA111	Shorthand I or	
OA114	Briefhand I	3
OA121	Typing I	3
<b>Term 2</b>		
Cv1099	Engineering Technician Orientation	2
Math081	Technical Mathematics I	4
OA085	Business English II or	
	General education elective	3
OA101	Office Careers Survey	1
OA112	Shorthand II or	
OA072	Briefhand II	3
OA122	Typing II	3
<b>Term 3</b>		
BA214	Business Communications	3
BA226	Business Law	3
OA113	Shorthand III or	
OA073	Briefhand III	3
OA116	Office Procedures	3
Math082	Technical Mathematics II	4
<b>Term 4</b>		
Cv1079	Contracts and Specifications	3
CS131	Introduction to Data Processing or	
CS101	Computer Environment	3
OA123	Typing III	3
OA225	Machine Transcription I	3
<b>Term 5</b>		
BA211	Financial Accounting I or	
BA051	Accounting Procedures I	4
BA244	Records Management	3
OA062	Reprographics	3
OA200	Introduction to Word Processing	3
	Engineering elective	3
<b>Term 6</b>		
Ec100	Outline of Economics or	
Ec201	Principles of Economics	3
OA256	Secretarial Practicum	3
	Engineering elective	3
	Social science elective	3
	Business elective (OA280 Cooperative Work Experience recommended)	3



# Office Occupations

(page 59)

## Required courses:

Course No.	Course Title	Credit Hours
OA050	Civil Service Exam Prep I	3
OA051	Civil Service Exam Prep II	3
OA052	Civil Service Exam Prep III	3
OA053	Individualized Filing	3

OA054A	Introduction to Machine Transcription	1
OA054B	Introduction to Machine Transcription	1
OA061A	Introduction to Calculators	1
OA061B	Introduction to Calculators	1
OA121A	Typing I	1
OA121B	Typing I	1
OA121C	Typing I	1
Optional Courses:		
OA058A	Shorthand Refresher I	2
OA058B	Shorthand Refresher II	2
OA122A	Typing II	1
OA122B	Typing II	1
OA122C	Typing II	1
OA280	Cooperative Work Experience	maximum 6

## Course Descriptions

### Allied Health (page 69)

**AH150 The Nation's Health, 3 class hrs/wk, 3 cr.** *Course number changed from AH199N.*

### Automotive Technology (page 70)

**Aum051 Basic Automotive Engines, 3 class hrs and 9 lab hrs/wk, 6 cr.** *Title changed.*

**Aum057 Automotive Brake Systems, 2 class hrs and 3 lab hrs/wk, 3 cr.** *Title changed.*

**Aum058 Auto Steering and Suspension, 2 class hrs and 3 lab hrs/wk, 3 cr.** *Title changed.*

**Aum061 Standard Transmission, Clutches and Differentials, 3 class hrs and 6 lab hrs/wk, 5 cr.** *Title changed.*

**Aum062 Technical Diagram Interpretation, 1 class hr and 3 lab hrs/wk, 2 cr.** *Course not currently offered.*

**Aum066 Fuel Systems and Carburetion I, 3 class hrs and 3 lab hrs/wk, 4 cr.** *Number of credit hours changed.*

**Aum068 Automotive Accessory Systems, 2 class hrs and 2 lab hrs/wk, 3 cr.** *Prerequisite: Second year status or consent of instructor. Title, credits and prerequisite changed.*

**Aum076 Automotive Electrical Systems I, 3 class hrs and 3 lab hrs/wk, 4 cr.** *Lab hour changed.*

**Aum082 New Automotive Developments, 3 class hrs/wk, 3 cr.** *Prerequisites: Aum066, Aum067, Aum076, Aum077. Prerequisites added.*

**Aum083 Automotive Materials, 2 class hrs/wk, 2 cr.** *Course not currently offered.*

**Aum086 Automotive Heating and Air Conditioning, 3 class hrs and 3 lab hrs/wk, 4 cr.** Theory and operation of automotive heating and air-conditioning systems; methods for service and repair of heating and air conditioning; troubleshooting techniques. Lab fee, \$5. **W** *New course added.*

**Aum087 Advanced Automotive Engines, 3 class hrs and 3 lab hrs/wk, 4 cr.** Technical aspects, theory, design and checking of internal combustion engines and related components; demonstrations of procedures and special tools. **Prerequisite:** Aum052. Lab fee \$12. **F** *New course added.*

### Banking and Finance (page 71)

**Ban050 Financial Institution Survey, 1 class hr/wk, 1 cr.** Survey of organization of various financial institutions and of Banking and Finance associate degree program options offered by Chemeketa. Features guest speakers giving current information. **F** *New course added.*

### Black Studies (page 73)

**BSt202, 203, 204 Introduction to Afro-American History, 3 class hrs/wk, 3 cr.** *Course numbers changed from BS202, 203, 204.*

**BSt261 Black Economic Experience, 3 class hrs/wk, 3 cr.** *Course number changed from BS261.*

**BSt262 Black Economic Experience, 3 class hrs/wk, 3 cr.** *Course number changed from BS262.*

### Building Inspection (page 73)

**Bld072 Plumbing Codes II, 3 class hrs/wk, 3 cr.** Plumbing code requirements relating to water and gas distribution systems, storm and sanitary sewer systems, water heater installations, mobile home connections, and swimming pool standards for one and two family dwellings. **Prerequisite:** Bld071 or consent of instructor. **Offered as needed. New course added.**

### Business Administration (page 74)

**BA224 Personnel Management, 3 class hrs/wk, 3 cr.** **Prerequisite:** None. *Title and prerequisite changed.*

### Chemistry (page 76)

**Ch101 Chemistry for Allied Health, 3 class hrs and 2 lab hrs/wk, 4 cr.** First in a three-term sequence for Nursing and Allied Health students. Applications of chemical principles to the life sciences, a prerequisite to understanding living organisms. Topics include matter, atomic structure, chemical bonds, reactions, molecules, acids, bases, salts, the aqueous system and nuclear chemistry. **Prerequisite:** high school algebra (one year) or Mth010. Lab fee, \$6. **F,W,Sp** *New course added.*

**Ch102 Chemistry for Allied Health, 3 class hrs and 2 lab hrs/wk, 4 cr.** A continuation of Ch101, emphasizing chemical relationships to biological systems. Includes solutions and their properties, acids and bases and organic chemistry. **Prerequisite:** Ch101. Lab fee, \$6. **W** *New course added.*

**Ch103 Chemistry for Allied Health, 3 class hrs and 2 lab hrs/wk, 4 cr.** A continuation of Ch102, emphasizing applications of chemical principles to the life sciences, with primary reference to humans. Covers structure and function of carbohydrates, lipids, and proteins; cellular metabolism; the chemistry of heredity, including the structure and function of nucleic acids, and current work in recombinant DNA research and gene splicing. **Prerequisite:** Ch102 or equivalent. Lab fee, \$6. **Sp** *New course added.*

**Ch115 Consumer Chemistry, 3 class hrs and 2 lab hrs/wk, 4 cr.** *Course number changed from Ch101.*

**Ch116 Consumer Chemistry, 3 class hrs and 2 lab hrs/wk, 4 cr.** *Course number changed from Ch102.*

**Ch117 Consumer Chemistry, 3 class hrs and 2 lab hrs/wk, 4 cr.** *Course number changed from Ch103.*

**Ch227 Organic Chemistry, 3 class hrs and 4 lab hrs/wk, 5 cr.** **Prerequisite:** Ch226; Ch106 or Ch206. *Prerequisite changed.*

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### Civil/Survey Technology (page 77)

**Cvl055 Environmental Quality Control**, 2 class hrs and 3 lab hrs/wk, 3 cr. Prerequisite: Math081. Prerequisite changed.

**Cvl056 Sanitary Engineering**, 2 class hrs and 3 lab hrs/wk, 3 cr. Prerequisite: Cvl055. Prerequisite changed.

**Cvl057 Soil Mechanics**, 2 class hrs and 3 lab hrs/wk, 3 cr. Prerequisites: Second year standing, Cvl050 and Math081. Prerequisites changed.

**Cvl059 Soil Mechanics Fundamentals**, 2 class hrs and 3 lab hrs/wk, 3 cr. Prerequisite: Math052 or Math081. Prerequisite changed.

**Cvl061 Plane Surveying II**, 3 class hrs and 6 lab hrs/wk, 5 cr. Prerequisites: Civil/Survey Technology students, Math082 and Cvl060; Forestry Technology students, Math052 and Cvl060 or concurrent enrollment. Prerequisites changed.

**Cvl062 Survey Computations I**, 1 class hr and 3 lab hrs/wk, 2 cr. Prerequisites: Math082, Cvl061, Cvl099. Prerequisites changed.

**Cvl065 Survey Law**, 3 class hrs/wk, 3 cr. Prerequisite: Second year standing or consent of program coordinator. Prerequisite changed.

**Cvl067 Public Land Survey**, 3 class hrs/wk, 3 cr. Prerequisites: Cvl060 and Cvl061. Prerequisites changed.

**Cvl071 Building Materials**, 2 class hrs and 3 lab hrs/wk, 3 cr. Course number changed from Bld065.

**Cvl077 Construction Estimating**, 2 class hrs and 3 lab hrs/wk, 3 cr. Prerequisite: None. Prerequisite changed.

**Cvl079 Contracts and Specifications**, 3 class hrs/wk, 3 cr. Prerequisite: None. Prerequisite changed.

**Cvl099 Engineering Tech Orientation**, 1 class hr and 2 lab hrs/wk, 2 cr. Prerequisite: High school algebra or consent of instructor. Prerequisite changed.

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### Clothing/Textiles (page 77)

**CT210 Clothing Construction**, 6 lab hrs/wk, 3 cr. Lab hours changed.

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### Computer Science (page 78)

**CS075 OS Concepts and Facilities**, 3 class hrs/wk, 3 cr. Concepts and facilities of the IBM OS/VS1 operating system, including an introduction to IBM OS job control language. Students run exercises on the IBM System 4331, located in the college computer center. Prerequisites: CS071 and CS215. Description and prerequisites changed.

**CS211 Introduction to PASCAL**, 3 class hrs and 2 lab hrs/wk, 4 cr. Prerequisite: Mth100 or Math082 or consent of instructor. Prerequisite changed.

**CS215 Computer Organization**, 4 class hrs/wk, 4 cr. Title changed.

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### Criminal Justice (page 79)

**CJ221 Criminal Law II**, 3 class hrs/wk, 3 cr. Course not currently offered.

**CJ254 Transportation Security**, 3 class hrs/wk, 3 cr. Course not currently offered.

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### Dental Assisting (page 80)

**Den059 Dental Assisting Practicum I**, 1 class hr and 7 lab hrs/wk, 3 cr. Prerequisite: Completion of term 1 or consent of program coordinator. Lab fee, \$4.50 Prerequisite and lab fee changed.

**Den060 Dental Office Management**, 2 class hrs and 3 lab hrs/wk, 3 cr. Prerequisite: None. Prerequisite dropped.

**Den062 Applied Radiography II**, 5 class hrs and 2 lab hrs/wk, 2 cr. Prerequisite: Den061. Credit and prerequisite changed.

**Den066 Expanded Functions I**, 1 class hr and 3 lab hrs/wk, 2 cr. Prerequisite: Den050, Den055 or equivalent. Lab hours and prerequisite changed.

**Den069 Dental Office Practicum II** 8 lab hrs/wk, 3 cr. Lab fee, \$4.50. Lab hours changed and lab fee added.

**Den079 Dental Office Practicum III**, 16 lab hrs/wk, 5 cr. Lab fee, \$4.50. Lab fee added.

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### Drafting Technology (page 80)

**Drf052 Machine Drafting II**, 1 class hr and 7 lab hrs/wk, 4 cr. Prerequisite: Drf051. Prerequisite changed.

**Drf053 Machine Drafting**, 1 class hr and 6 lab hrs/wk, 3 cr. Course not currently offered.

**Drf059 Print Reading**, 4 lab hrs/wk, 2 cr. Number of credit hours changed.

**Drf062 Technical Illustration II**, 8 lab hrs/wk, 3 cr. Prerequisite: Drf061 or consent of instructor. Prerequisite changed.

**Drf063 Pattern Development**, 8 lab hrs/wk, 3 cr. Development of patterns for sheet metal and similar applications using principles of descriptive geometry: parallel line, radial line, triangulation and simplified triangulation methods. Prerequisites: Drf052 and Drf074 or consent of instructor. New course added.

**Drf064 Drafting II**, 4 lab hrs/wk, 2 cr. Course not currently offered.

**Drf065 Drafting Room Computations**, 2 lab hrs/wk, 1 cr. Computation and presentation of technical data using engineering calculators to solve typical problems in mechanical, civil, tool design, and related areas. Prerequisite: Math081 or Math053 and Drf051 or consent of instructor. Description and prerequisite changed.

**Drf067 Tool Design Lab II**, 8 lab hrs/wk, 3 cr. A continuation of Drf066, with advanced problems in jig and fixture design and detailing. Emphasizes applications of tooling materials, and components. Prerequisite: Drf066 or consent of instructor. Description and prerequisite changed.

**Drf069 Pipe and Flow Systems W/CAD**, 1 class hr and 5 lab hrs/wk, 3 cr. Title changed.

**Drf071 Machine Design Lab I**, 8 lab hrs/wk, 3 cr. Prerequisites: Drf052, Drf074, Mch072 or consent of instructor. Prerequisite changed.

**Drf074 Descriptive Geometry**, 1 class hr and 5 lab hrs/wk, 3 cr. Prerequisites: Drf052, Math081 or consent of instructor. Prerequisite changed.

**Drf076 Photogrammetry I**, 8 lab hrs/wk, 3 cr. An introduction to mapping procedures and development of aerial photo interpretation skills. Includes planimetric map construction by standard methods and equipment. Description changed.

**Drf077 Photogrammetry II**, 8 lab hrs/wk, 3 cr. Prerequisite: Drf076. Prerequisite changed.

**Drf078 Advanced Computer Drafting**, 2 class hrs and 3 lab hrs/wk, 3 cr. Programming of geometric forms, development of interactive drawings capabilities, storage and retrieval of drawings and use of a graphics tablet. A preparatory course for more advanced applications. Prerequisite: Drf073, Math053 or Math082. Lab fee, \$3. F New course added.

**Drf081 Mapping and Platting**, 1 class hr/wk, and 7 lab hrs/wk, 3 cr. Prerequisite: Drf052. Prerequisite changed.

**Drf086 Power Transmission Design**, 2 class hrs and 3 lab hrs/wk, 3 cr. Prerequisite: Cvl050, Math082 or consent of instructor. Prerequisite changed.

**Drf089 Structural Drafting**, 8 lab hrs/wk, 3 cr. Prerequisite: Consent of instructor. Prerequisite changed.

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### Education (page 83)

**Ed251 Overview of Handicapping Conditions**, 3 class hrs/wk, 3 cr. An introduction to a variety of handicapping conditions of students in public schools and institutions. Identification and definition of severely emotionally disturbed, mentally retarded, learning disabled, speech and language disabled, vision and hearing impaired, physically handicapped persons and persons with other health impairments. Title and description changed.

**Ed267 Introduction to Legislation, History and Certification Process for Special Education**, 3 class hrs/wk, 3 cr. First in a three-term sequence. Covers legislation, history, certification for special education, services available and current rules and regulations affecting handicapped persons. Title and description changed.

**Ed268 Introduction to Classroom Management of the Mildly Handicapped**, 3 class hrs/wk, 3 cr. A continuation of Ed267. Covers the theories and techniques of working with mildly handicapped students and services and funding available for them. Title and description changed.

**Ed269 Introduction to Classroom Management of the Severely Handicapped**, 3 class hrs/wk, 3 cr. A continuation of Ed268. Covers theories and techniques of working with severely handicapped students and the services and funding available for them. Title and description changed.

**Electronics (page 84)**

ENL111 English as a Non-Native Language II, 3 class hrs and 2 lab hrs/wk, 4 cr. For students whose first language is not English. Emphasizes essential structure of English, writing and vocabulary development skills at the advanced level. **Prerequisite:** Placement test. R Description and term offering changed.

EH075 Industrial Electronics, 3 class hrs and 3 lab hrs/wk, 4 cr. **Prerequisites:** EH065 and EH092. *Prerequisite changed.*

**Emergency Medical Technology (page 85)**

EML112 English as a Non-Native Language III, 3 class hrs and 2 lab hrs/wk, 4 cr. W, Sp

EML1050 Emergency Medical Technology I, 4.5 class hrs and 3.5 lab hrs/wk, 7 cr. Development of skills in recognizing symptoms of illnesses and injuries and following proper procedures of emergency care. For persons currently active in services which demand response to emergency care situations, such as ambulance attendants, firefighters, emergency rescuers, police, mountain rescuers, and industrial emergency care persons. **Prerequisite:** Consent of director. Lab fee, \$9.50. *Class, lab, credit, description, prerequisite and lab fee changed.*

EML1051 EMT Basic Emergency Medical Technology I, Part A, 2 class hrs and 2 lab hrs/wk, 3 cr. **Prerequisite:** Age 18, acceptance into EMT program and eligibility for certification based on Oregon State Health Division priorities and regulations. Lab fee, \$6.50. *Credit, prerequisite and lab fee changed.*

EML1052 Emergency Medical Technology I, Part B, 2 class hrs and 2 lab hrs/wk, 3 cr. Lab fee, \$4.50. *Lab fee added.*

EML1053 Emergency Medical Technology I, Part C, 2 lab hrs/wk, 1 cr. Lab fee, \$4.50. Lab fee added.

EML1060 Emergency Medical Technician III, Part A, 4 class hrs and 2 lab hrs/wk, 5 cr. Role and responsibilities of EMT personnel, patient assessment, shock management, fluid therapy, introduction to pharmacology. **Prerequisite:** Acceptance into EMT program, EMT I certification. Lab fee, \$9.50. *Credit hours, description, prerequisite changed and lab fee added.*

EML1061 Emergency Medical Technician III, Part B, 3 class hrs and 5 lab hrs/wk, 5 cr. Lab fee, \$9.50. *Credit hours changed and lab fee added.*

EML1002 Emergency Medical Technician III, Part C, 3 class hrs and 11 lab hrs/wk, 6 cr. Lab fee, \$9.50. *Lab fee added.*

**English as a Non-Native Language (page 86)**

ENL1010 English as a Second Language - Speaking, 3 class hrs and 2 lab hrs/wk, 3 cr. *Class hours changed.*

ENL1015 English as a Second Language - Writing, 3 class hrs and 2 lab hrs/wk, 3 cr. *Class hours changed.*

ENL110 English as a Non-Native Language I, 3 class hrs and 2 lab hrs/wk, 4 cr. For students whose first language is not English. How to listen to and understand native speakers, speak English with correct intonation, write appropriate grammatical English sentence patterns

**Family Living (page 87)**

FL225 Development in Childhood I, 3 class hrs/wk, 3 cr. *Course number changed from ECE061.*

FL233 Family Dynamics, 3 class hrs/wk, 3 cr. *Course number changed from FL190.*

**Fire Protection (page 87)**

FRP055 Elementary Science/Firefighters, 2 class hrs and 2 lab hrs/wk, 3 cr. *Number of credit hours changed.*

FRP057 Fire Science, 2 class hrs and 2 lab hrs/wk, 3 cr. *Title and credit changed.*

FRP059 Fire Science II, 3 class hrs and 2 lab hrs/wk, 4 cr. *Course not currently offered.*

FRP083 Water Distribution Systems, 3 class hrs/wk, 3 cr. **Prerequisite:** Math052 or approval of instructor. *Prerequisite changed.*

FRP086 Advanced Detection and Protection Systems, 3 class hrs/wk, 3 cr. Examinations and evaluation specialized extinguishing systems, their suppression agents and principles. Covers household warning systems, fire detection and alarm systems, protective signaling systems, explosion systems, and thermal smoke and flame detection systems. **Prerequisites:** FRP059 or equivalent and FRP071 or consent of instructor. *Description and prerequisite changed.*

**Forestry (page 89)**

FOR077 Forest Mensuration II, 3 class hrs and 4 lab hrs/wk, 4 cr. **Prerequisite:** FOR076. *Prerequisite changed.*

FOR081 Logging Practices, 2 class hrs and 6 lab hrs/wk, 4 cr. An introduction to log harvesting. Covers recognition and uses of tools, equipment, and cable systems; safety, terminology, customs and management. *Description changed.*

FOR085 Forestry Contracts, 3 class hrs/wk, 3 cr. How to read a bid prospectus, complete a formal bid document and complete a contract successfully. *W New course added.*

FOR093 Forestry Seminar, 1 class hr/wk, 1 cr. **Prerequisite:** Second year standing. *Prerequisite changed.*

**Human Resource (page 91)**

HR153 Introduction to Residential Youth Care, 3 class hrs/wk, 3 cr. *Title and course number changed from HR199L.*

HR265 Intervention Strategies, 2 class hrs and 2 lab hrs/wk, 3 cr. *Class and lab hours changed.*

**Machine Technology (page 93)**

Mch084 Machine Shop Operations II, 6 lab hrs/wk, 2 cr. Lab fee, \$10. *Lab fee changed.*

Mch067 Machine Tool Processes II, 2 class hrs and 6 lab hrs/wk, 4 cr. **Prerequisite:** None. *Prerequisite changed.*

Mch071 Machine Tool Processes III, 2 class hrs and 9 lab hrs/wk, 5 cr. **Prerequisite:** None. *Prerequisite changed.*

Mch072 Industrial Materials and Processes, 2 class hrs and 4 lab hrs/wk, 3 cr. **Prerequisite:** Mch056 or consent of program coordinator. *Prerequisite changed.*

Mch093 Machine Shop Automation, 2 class hrs and 1 lab hr/wk, 2 cr. An introduction to numerical control and computer numerical control and their uses as they apply to the machine industry, including controllers and use of software, computer terminals and the machine tool to do basic programming in various machine tool languages. **Prerequisite:** Mch071, Mch072 or approval of program coordinator. *Description and prerequisite changed.*

**Mathematics (page 94)**

Math007 Whole Numbers, 5 lab hrs/wk, 1 cr. *Course number changed from Math09A.*

Math008 Fractions, 5 lab hrs/wk, 1 cr. *Course number changed from Math09B.*

Math009 Decimals, 5 lab hrs/wk, 1 cr. *Course number changed from Math09C.*

Math051 Basic Mathematics, 3 class hrs/wk, 3 cr. *Class hours changed.*

Math052 Introduction to Algebra and Geometry, 3 class hrs/wk, 3 cr. *Class hours changed.*

Math053 Introduction to Trigonometry with Geometry, 3 class hrs/wk, 3 cr. *Class hours changed.*

Mth010 Beginning Algebra, 4 class hrs/wk, 4 cr. *Class hours changed.*

Mth100 Intermediate Algebra, 4 class hrs/wk, 4 cr. *Course number changed from Mth095; class hours changed.*

Mth192 Mathematics for Elementary Teachers, 3 class hrs/wk, 3 cr. A continuation of Mth191, a three-term sequence for prospective teachers. Covers further concepts, terminology, and skills encountered in kindergarten through ninth grade mathematics curriculum including rational and real numbers, an introduction to computers, number theory, consumer math, and individualized instruction in concepts of geometry offered as an alternate. **Prerequisite:** Mth191 or consent of instructor. *Description changed.*

**Medical Assisting (page 95)**

Med079 Medical Office Practice, 16 lab hrs/wk, 6 cr. Lab fee, \$4.50. *Lab fee added.*

Med081 Legal Concerns in a Medical Office Practice, 1 class hr/wk, 1 cr. *Course not currently offered.*

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## Nursing (page 96)

**Nur104 The Nurse at Work, 1 class hr/wk, 1 cr.** Trends and practices of licensed practical nurses. Includes organizational and structural elements and socio-cultural factors influencing the role of the new graduate as a member of a nursing and health team. **Prerequisite:** Enrolled in first year Nursing Program. **Sp** *New course added.*

**Nur111 LPN Re-entry, 5 class hrs and 15 lab hrs/wk, 10 cr.** Lab fee, \$9.50. *Lab fee changed.*

**Nur204C The Nurse at Work, 1 class hr/wk, 1 cr.** *Course not currently offered.*

**Nur206 Nursing, 6 class hrs and 16 lab hrs/wk, 11 cr.** **Prerequisites:** Nur106, 108, 109. *Credit and prerequisites changed.*

**Nur208 Nursing, 6 class hrs, 16 lab hrs/wk, 11 cr.** **Prerequisites:** Nur106, 108, 109, 206. *Class, lab, credit hours and prerequisites changed.*

**Nur209 Nursing, 3 class hrs and 16 lab hrs/wk, 8 cr.** **Prerequisites:** Nur106, 108, 109, 206, 208. *Class, lab, credit hours and prerequisites changed.*

**Nur211 RN Re-entry Program, 5 class hrs and 15 lab hrs/wk, 10 cr.** Lab fee, \$9.50. *Lab fee changed.*

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## Office Administration (page 97)

**OA061A Introduction to Calculators, 1 class hr/wk, 1 cr.** *Course number changed from OA055A and lab hours dropped.*

**OA061B Introduction to Calculators, 1 class hr/wk, 1 cr.** *Course number changed from OA055B and lab hours dropped.*

**OA084 Business English I, 3 class hrs/wk, 3 cr.** *Title changed.*

**OA085 Business English II, 3 class hrs/wk, 3 cr.** **Prerequisite:** OA084 or equivalent. *Title and prerequisite changed.*

**OA099 Proofreading, 12 class hrs/wk, 1 cr.** Effective proofreading techniques, emphasizing punctuation, word division, spelling and capitalization rules. Includes use of office reference manuals. **Prerequisite:** OA121 or equivalent. **Offered as needed.** *New course added.*

**OA121A Typing I, 2 lab hrs/wk, 1 cr.** *Course number changed from OA056A.*

**OA121B Typing I, 2 lab hrs/wk, 1 cr.** *Course number changed from OA056B.*

**OA121C Typing I, 2 lab hrs/wk, 1 cr.** *Course number changed from OA056C.*

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## Reading (page 103)

**RD009 Basic Reading Tactics I, 5 class hrs/wk, 3 cr.** How to improve reading skills. Emphasizes comprehension of words, sentences and paragraphs. **Prerequisite:** Standardized reading scores from fourth to sixth grade level. **F,W, Sp** *Class, lab hours changed and prerequisite added.*

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## Skills Development (page 105)

**SkD007 Basic Writing Skills for Deaf and Hearing Impaired, 3 class hrs/wk, 3 cr.** *Course not currently offered.*

**SkD013ABC Basic Spelling Skills, 3 class hrs/wk, 1-3 cr.** Variable credit for instruction in phonics. Stresses sounds of English language, using both general and vocational words. **F,W,Sp,Su** *Description changed.*

**SkD049 Basic Communication Skills for Deaf and Hearing Impaired, 3 class hrs/wk, 3 cr.** *Course not currently offered.*

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## Speech (page 105)

**Sp105 Effective Listening, 3 class hrs/wk, 3 cr.** *Course number changed from Sp199.*

**Sp126 Awareness of Communication in Relationships, 3 class hrs/wk, 3 cr.** **Prerequisite:** Sp114. *Prerequisite changed.*

**Sp229 Oral Interpretation, 3 class hrs/wk, 3 cr.** Analysis and presentation of literature, use of emotional reactions to give color and interest, expressive vocal and body gestures, and characterization to interpret literature. **Offered as needed.** *New course.*

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## Welding (page 106)

**Wld077 Welding, 1 class hr and 3 lab hrs/wk, 2 cr.** **Prerequisite:** Ability to benefit from instruction. *Prerequisite changed.*

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## Welding Fabrication (page 107)

**WFb092 Fabrication Shop Problems I, 8 lab hrs/wk, 3 cr.** Application of theories and procedures in layout, mathematics, welding, and print reading, to problems of welded design and fabrication. Practice in producing a usable product in a job shop atmosphere. **Prerequisite:** Student must possess sufficient welding and fabrication skills to complete assigned projects under actual job shop conditions. *Description and prerequisite changed.*

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## Writing (page 108)

**WR227 Technical Writing, 3 class hrs/wk, 3 cr.** **Prerequisites:** Wr121, 122. *Prerequisite changed.*

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