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PLANNING GUIDE

OCCUPATIONAL

STUDENTS

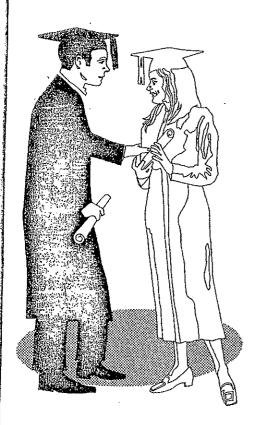
PLANNING GUIDE

OCCUPATIONAL

STUDENTS

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OCCUPATIONAL EDUCATION associate degree & certificate programs

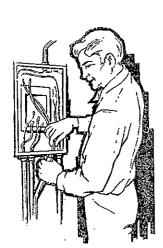


associate in applied arts and sciences

Accounting
Business Data Processing
Business Administration
Executive Secretary
Legal Secretary
Medical Secretary
Nursing
Word Processing Specialist

associate in general studies

certificate programs



Apprentice Training
Automotive Maintenance
Clerk-Typist
Cosmetology
Legal Office Assistant
Medical Office Assistant
Nursing
Construction Tradesman
Stenographer
Word Processing Operator
Welder



COURSES REQUIRED AT M.C.C.

ASSOCIATES IN ARTS AND SCIENCES

Course Title	Cou	rse Number	Credit Hours
Freshman English I Freshman English II	~	LA100 LA101	3
OR (with earned B+ in Fr. Enq. I) any literature class: LA200,201,240,250,270,280, or	295.	•	3
Biological Science & Physical Science OR (with sufficient science background)	205	NS100/101	· .
any two science lab courses: NS103,105,200,201,203,7 220,221,230, or 231.	.200,		. 8
Introduction to Social Science I Introduction to Social Science II OR		SS110 SS111	4
any <u>two</u> social science classes: SS120,150,215,220,23	21,		4 or 6
Humanities I and II	TOTAL	HU200/201 CREDIT HOURS:	8 30 or 32

ASSOCIATES IN APPLIED ARTS AND SCIENCES

Course Title	Course Number	Credit Hours
Freshman English I Freshman English II	LA100 LA101	3
OR (with earned B+ in Fr. Eng. I) any literature class		[′] 3
Introduction to Social Science I Introduction to Social Science II	SS110 SS111	4
OR NS100 or NS101, HU200 or HU201, or any other SS course	TAL CREDIT HOURS:	3 or 4 13 or 14

ASSOCIATES IN GENERAL STUDIES

Course_Title	Course Number	Credit Hours
Introduction to Social Science I	\$\$110	4
OR Political Science Electives	SS240	3 · <u>11 or 12</u>
		15*

^{*}These 15 hours must include courses from at least three of the academic areas (humanities, language arts, math, science, and social science).

accounting

This is a two-year program leading to an Associates Degree in Applied Arts and Science with a specialty in Accounting. The objective of this program is to provide the background and skills necessary for an entrance job in the accounting field.

FIRST YEAR

Fall Semester			
Financial Accounting	BA115.	4	
Introduction to Business	BA135	3	
Managerial Math	BA221	3	ŧ
Freshman English I	LA100	3	**
Introduction to Social Science I	SS110	4	
		17 credi	t hours

Spring Semester
Managerial Accounting BA116 4
Freshman English II* LA101 3
Introduction to Social Science II* SS111 4

Elective 3

14 credit hours

SECOND YEAR

Fail Semester		
Legal Environment of Business	BA200	· 3
Cost Accounting	BA215	3
Tax Accounting	BA246	3
Principles of Economics	SS215.	3
Elective		3
		15 credit ho

Spring Semester		
Management	BA237	3
Cost Accounting II	BA216	3
Introduction to Electronic		•
Data Processing	DP110	3
Psychology	SS220 .	. 3
Elective		3
		15 credit ho

SUGGESTED ELECTIVES

Introduction to Computer Programming	g DP115	3
College Algebra	MA159	3
Beginning Typing	0E100	3
Keyboarding	0E100A	1

apprentice training

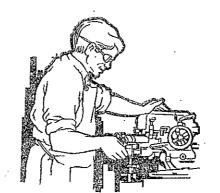
Admission into the apprentice training program is gained by way of employment and/or sponsorship by the employer and contingent upon the development of a training agreement between the employer, employee, and the United States Bureau of Apprenticeship and Training. Montcalm Community College coordinates the training plan and provides the related instruction.

The semester is apprentice-related instruction and is 17 weeks in length, with the trainee usually taking two 2-credit hour courses per semester. A competency examination may result in a waiver of a required course. Official transcripts may also be used.

Entrance requirements are established by the employer in accordance with existing Bureau of Apprenticeship Training standards. Continuation in the training program is continuent upon employment status and/or related instruction level of achievement.

Apprenticeship training is presently established for the tool and die maker and machinery repairman trades. Other apprenticeship trades may be pursued providing suitable training plans are established.

H 11 %	F	IRST YEAR			
Fall Semester Shop Mathematics I Machine Tool Theory	AP110 - AP100	2 2	<u>Spring Semester</u> Shop Mathematics II Blueprint Reading I	AP111 AP105	2 2
, ,	SI	ECOND YEAR	•		
Fall Semester Shop Mathematics III Blueprint Reading II	AP112 AP106		<u>Spring Semester</u> Welding I Machinist's Handbook	AP125 AP120	2 2
F 13 6 .	TH	HIRD YEAR	•		
Fall Semester Tool & Die Design I (Metal or Plastic) Strength of Materials	AP140		Spring Semester Tool & Die Design II (Metal or Plastic) Metallurgy & Heat Treatment	AP136/- AP141 AP130.	
F 17 0	FO	URTH YEAR	<i>∹</i> .	13	
Fall Semester Tool & Die Design III (Metal or Plastic) Use of the Machinist's	AP142		Spring Semester Tool & Die Design IV (Metal or Plastic) Social Economics	AP138/ AP143 AP150	2
Handbook			Safety & First Aid	AP155 .	i



automotive maintenance

The automotive maintenance mechanics curriculum provides for the development of the skill and knowledge essential in the performance of the inspection, diagnosis, repair and adjustments of automotive vehicles and diesel engines. A thorough understanding of the principles and procedures of maintaining and repairing the modern automobile, its components and accessories, is developed through classroom study and laboratory experience. Included in the program is a study of the diesel engine and its special properties with the emphasis on maintenance, servicing, diagnosis and repair of diesel component parts and accessories. Laboratory instruction is performed on modern equipment and operating training units.

FIRST YEAR

Fall Semester Automotive Gasoline Engines Theory Automotive Gasoline Engines Lab Manual Transmissions, Rear Axles and Drive Trains Shop Math Basic Electricity	AM100 3 AM101 5 AM102 5 VE110 3 VE250 3	
·	19	credit hours

Spring Semester	. '		
Automotive Engine Tune-Up Theory	AM150	. 3	
Automotive Engine Tune-Up Lab	AM151	5	•
Automotive Electrical Systems	AM152	5	
Related Welding Skills	WEITO	3	
Hydraulics and Fluid Power	VE253	3	
1	•	19	credit hours

VE102*

SECOND YEAR

Fall Semester Automatic Transmissions Automotive Brakes Automotive Front End/Steering Automotive Parts Management Vocational Communication Skills	AM200 AM201 AM202 AM232 VE100	5 4 2 3	credit	· : hours
Spring Semester Diesel Engine Theory Diesel Engines Lab Automotive Heating			250 251	3 5
and Air Conditioning Automotive Service Manage	ement	AM2	252 233	4 2

Technical Writing and Speaking

Students wishing to earn the Associates Degree (81 hours) must complete the additional courses required for the Associates in Applied Arts and Science (page 2).

^{*}Required for the certificate program only.

business administration

This is a two-year program leading to an Associate Degree in Applied Arts and Science with a specialty in business administration. The objective of this program is to provide the background and skills necessary for an entrance job in the business field.

FIRST YEAR

Fall Semester Financial Accounting Introduction to Business Freshman English I Introduction to Social Science I Elective	BAT15 4 BAT35 3 LAT00 3 SST10 4	
Flective	77 credi	t hours

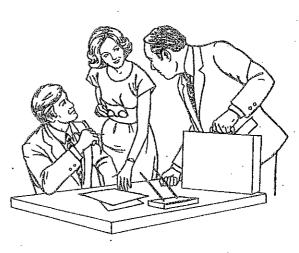
Spring Semester Managerial Accounting		BA116	4	
Freshman English II		1.A101	3	
Introduction to Social Science	11*	\$\$111	. 4	•
Elective		•	ა -	
F1600140			T4 credit	: hours

SECOND YEAR

Advertising Human Relations in Business Speech Psychology Elective	BA248 3 BA250 3 LA210 3 SS220 3		haire
21000114	15	credit	hours

SUGGESTED ELECTIVES

*See alternatives listed under requirements for the Associates Degree in Applied Arts and Science (page 2).



business data processing

This is a two-year program leading to an Associate Degree in Applied Arts and Science with a specialty in business data processing. The objective of this program is to provide the background and skills necessary for an entrance job in the business data processing field.

FIRST YEAR

Fall Semester Freshman English I Financial Accounting Introduction to Data Processing Introduction to Business Elective	LA100 / 3 BA115 / 4 DP110 / 3 BA135 / 3 To credit hours

The state of the s	
Spring Semester LA101/ 3	
Freshman English II BA1162 4	
Managerial Accounting	
7 Marko	
Introduction to Computer Programmers 3	
Elective 16 credit	hours

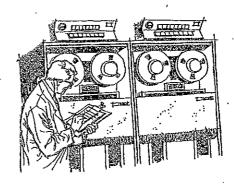
SECOND YEAR .

Fall Semester Introduction to Social Science I Legal Environment of Business COBOL Programming Management Systems Concepts/Design	SS110
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Spring Semester Introduction to Social Science II Programming Project Speech Human Relations in Business	LÁ210 3 BA250 3		
Elective	<u>16</u>	credit	hours

SUGGESTED ELECTIVES

College Algebra	MA159
Fconomi CS	SS215
General Psychology	SS220

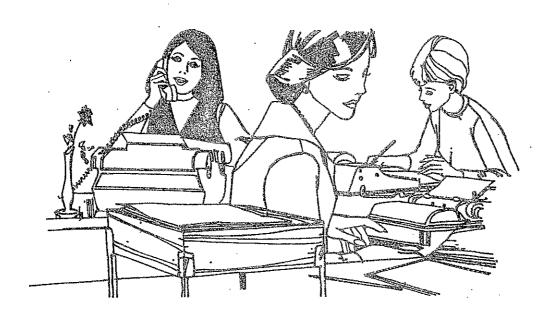


clerk-typist

The objective of the clerk-typist curriculum is preparation for employment in a variety of office occupations which include the development of skills in the use of all office machinery and the knowledge needed to carry out routine office functions. Previous training in typing is desirable. A certificate will be awarded upon successful completion of the program requirements. A student wishing to continue training may apply credits earned toward the secretarial or management programs.

Fall Semester Intermediate Typing Clerical Accounting Business Mathematics Business Communications I Introduction to Business	0E101 3 0E117 3 0E120 3 0E129 3 0E135 3	credit hours
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Spring Semester Advanced Typing Business Communications II Office Procedures Human Relations in Business Business Machines	0E202 0E130 0E230 BA250 0E240	3 3 3 4 16
--	---	------------------------



cosmetology

The cosmetology program is approved by the Michigan Board of Licensing and Regulation and prepares students to take the State Licensing Board Examination. Instruction is scheduled for five days per week, four and one-half hours per day, and includes over 1,500 hours of training. Over 900 hours will be spent in laboratory work during which students practice and apply services studied in the classroom setting. A licensed cosmetology instructor directs students' activities in a completely equipped cosmetology laboratory.

FIRST YEAR

Fall Semester Introduction to Cosmetology Introduction to Cosmetology Lab Beginning Hairstyling Beginning Hairstyling Lab	CS100 4 CS110 4 CS101 4 CS111 4	credit hours
---	--	--------------

Beginning Hair Beginning Hair	r Cutting & Permanent Waving Cutting & Permanent Waving Lab Coloring & Professional Devel. Coloring & Prof. Devel. Lab	CS113	4 4 4	credit	hours
----------------------------------	--	-------	-------------	--------	-------

SECOND YEAR

Fall Semester	CS200	4	
Advanced Hairstyling Advanced Hairstyling Lab	CS210	4	
Advanced Hair Coloring & Permanent Waving	CS201	4	
Advanced Hair Coloring & Perm. Waving Lab	CS211	<u>L</u>	
Mayancea hall out was		16	credit hours

Spring Semester Advanced Hairstyling II Advanced Hairstyling Lab II Cosmetology Salon Management & Board Review Salon Management & Board Review Lab	CS202 4 CS212 4 CS203 4 CS213 4	credit hours
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Students wishing to earn an Associates Degree in Applied Arts and Science must complete additional courses required for this degree. (see page 2).

executive secretary

The graduate of the executive secretarial science curriculum will have a knowledge of business technology, and a skill in dictation and accurate transcription of business letters and reports. The graduate is prepared to be employed as a stenographer or a secretary. Stenographers are primarily responsible for taking dictation and transcribing letters, memoranda or reports. The secretary, in addition to taking dictation and transcribing, is responsible for meeting office callers, screening telephone calls, and assisting the executive. An Associate Degree in Applied Arts and Science will be awarded upon successful completion of this 65-credit-hour program.

FIRST YEAR

Fall Semester Intermediate Typing Business Mathematics Business Communications I Freshman English I Introduction to Social Scien		0E101 3 0E120 3 0E129 3 LA100 3 SS110 4	credit ł	aouns d		
Spring Compo	· tan	10	credit	nours		
	munications II		E130 🗸 3		FIE	*
Intermediate Freshman Eng			E104V 4	4 97		
Introduction	i to Social Scien			4		228
	n to Business		135	3 7 credit	hauna	
			1.4	, crenti	ROHES	

SECOND YEAR

Fall Semester		,
Introduction to Data Processing	DP110√ 3	
Advanced Shorthand	0E203 🗸 4	
Advanced Typing	0E202~ 3	
Clerical Accounting	0E117~ 3	
Business Machines	0E240 4	
	17	credit hours

Spring Semester		
Office Procedures	0E230⊮ 3	
Voice Transcription	0E220 3	
Legal Environment of Business	BA200 3 BA250	
Human Relations in Business	BA250 🗸3	
	15	credit hours

*See alternatives listed under requirements for the Associate Degree in Applied Arts and Science (page 2).



food service technology*

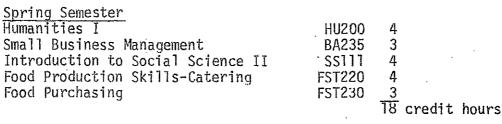
The two-year program in Food Service Technology is a 61 credit hour program designed to provide students with the skills and technical knowledge necessary to prepare them for entry level employment in the Food Service/Restaurant industry. Students completing this program will have basic skills in food preparation, nutrition, and menu planning, hotel and restaurant management, small business operation as it relates to the food industry and food related safety and sanitation. Completion of the full two years will fulfill requirements for an Applied Arts and Science Degree.

FIRST YEAR

Fall Semester Freshman English I Business Mathematics Introduction to Food Service Food Service Safety & Sanitation Food Production Skills-General	LA100 0E120 FST100 FST101 FST110	3 3 3 2	·	
	**	15 credit	hours	
Spring Semester				
Freshman English II		LA101	3	
Introduction to Business		BA135	3 .	
Food Production Skills-Entree		FST120	4	
Meat & Portion Control		FST130	2	
Nutrition & Menu Planning		FST140	3	
•	•		T5 credit	hours.

SECOND YEAR

Fall Semester				
Introduction to Social Science I	SS110	4		
Equipment Design, Layout & Selection	FST200	2	•	
Food Service Management	FST201	3		
Food Production Skills-Bakery	FST210	4		
		-13 cr	redit hours	





*Currently (1982) this program is available only in the prison extention program in Ionia.

legal secretary

This program leads to a two-year Associate Degree in Applied Arts and Science. The legal secretarial program is designed to prepare for employment and/or advancement for students who wish to specialize in legal shorthand and transcription and legal office procedures.

FIRST YEAR

Fall Semester Intermediate Shorthand Business Mathematics Clerical Accounting Freshman English I Introduction to Social Science I	0E104 0E120 0E117 LA100 SS110	4 3 3 3 4 17 credi	t ho	urs	
Spring Semester Business Communications Advanced Shorthand Advanced Typing Freshman English II* Introduction to Social S		0E129/13 0E203 0E202 LA101 SS111	0 3 4 3 3 4 17	credit	hours

SECOND YEAR

Fall Semester	•						
Business Machi	nes	0E240	4				
Office Procedu		0E230	3				
	ent of Business	BA200	3	-			
	n and Transcription	0E205	4				
Elective		02203	T T				
4.5001,0			15	credit	. ha		
•			13	creur	. HO	urs	
	Spring Semester	•					
	Legal Office Procedures		OF?	206	2		
	Word Processing I			225	4		
	Field Experience			290	3		
	Voice Transcription		0E2		ر ع	, i	
	Elective		UEZ	220	3		
	Liecuive				<u> 3</u>		
	•				15	credit	nours
71.0 PB							

medical office assistant

This one-year 33-credit-hour program leads to a certificate as a medical office assistant. The curriculum provides the student with a background and understanding of medical office assisting and practice in medical office procedures.

Fall Semester Intermediate Typing Business Communications I (or II) Business Machines Business Mathematics Clerical Accounting	0E101 3 0E129/130 3 0E240 4 0E120 3 0E117 3 T6 credit hours	
Spring Semester Advanced Typing Voice Transcription Office Procedures Medical Office Procedures Emergency Health Care	0E202 3 0E220 3 0E230 3 0E208 3 PE205 2	ırs



medical secretary

This program leads to a two-year Degree in Applied Arts and Science. The medical secretarial program is designed to prepare the student for employment and/or advancement in a physician's office, hospital, medical supply house, local, State or Federal health agency, voluntary health agency, medical college, health insurance firm, or related area.

FIRST YEAR

Fall Semester	
Intermediate Shorthand	0E104 × 4
Business Mathematics	0E120 / 3
Clerical Accounting	0E117 ✓ 3
Freshman English I	LA100 🗸 3 °
Introduction to Social Science I	SS110 4
·	17 credit hours
•	

2billing Semestral	,	
Business Communications I (or II)	0E129/130/3	
Advanced Shorthand	0E203, 4	
Emergency Health Care	PE205~ 2	*
Freshman English II*	LA101 - 3	
Introduction to Social Science II*	SS111 / . 4	
Elective	. 1	
	16	credit hours

SECOND YEAR

Fall Semester		
Business Machines	0E240 🗸 4	
Advanced Typing	0E202 ✓ 3	
Office Procedures	0E230 √ 3	
Medical Dictation & Transcription	3ر سر 0E207	•
Voice Transcription	0E220 3	
	T6	credit hours



Spring Semester Human Relations in Business BA250 3 Medical Office Procedures 0E208 3 Field Experience 0E290 3 Word Processing I 0F225 4	Human Anatomy and Physiology	ľ	NS103	4 16	credit	hours
Human Relations in Business BA250 ✓ 3 Medical Office Procedures 0E208 ✓ 3	Field Experience Word Processing I		0E290 W 0E225	3 4		
Human Relations in Business BA250 ✓ 3			سما 0E208	3		
	Human Relations in Business		BA250 🗸	3		

^{*}See alternatives listed under requirements for the Associates Degree in Applied Arts and Science (page 2).

nursing.

LEVEL I - PN

The Montcalm Community College Nursing Curriculum is designed to promote career mobility for the student. A student who completes one year is awarded a certificate in Practical Nursing and is eligible to write the National Council Licensing Examination (NCLEX-PN) for licensure and practice as a Licensed Practical Nurse (LPN).

Fall Semester - 16 weeks		
Skills I	NUR100	4
Nutrition	NUR110	2
Clinical	NUR115	3
Communication	NUR120	2
Growth and Development	NUR140	3
MedSurg. I	NUR150	2 😘
Anatomy & Physiology I	NS-103	4
Physical Fitness	PE-110	1.
-		21 credit hours

Spring Semester - 16 weeks	•		
Skills II	NUR101	2	
Clinical	NUR116	11	
MatChild. I	NUR145	2	
MedSurg. II	NURI57	4	
3		19 -	credit hours

Summer Semester - 8 weeks			
Clinical	NUR117	б	
Issues	NUR1 25	7	
Pharmacology	NUR160 -	2	•
		9	credit hours

PRACTICAL NURSING CERTIFICATE



nursing

LEVEL II - ADN

The Montcalm Community College Nursing curriculum is designed to promote career mobility for the students. A student who completes two years is awarded an Applied Arts and Science Degree and becomes eligible to write the National Council Licensing Examination (NCLEX-RN) for licensure and practice as a Registered Nurse (RN). Students who have previously completed an LPN program are eligible to be considered for advanced standing in the program. (Prior to admission into the Level II program LPN students are required to enroll in the following two courses offered in the summer semester: Role Transition-NUR200-2 credits and Physical Fitness-PEIIO-1 credit.)

Fall Semester - 16 weeks

Advanced Med.-Surg.

Freshman English I

General Psychology

Microbiology

Humanities I*

NUR251 10

LA-100 3

SS-220 3

MICROBIO STATE STATE

Spring Semester - 16 weeks		
MatChild. II	NUR245	6 (8 wks.)
Mental Health	NUR225	6 (8 wks.) 6 (8 wks.)
Freshman English II**	LA-101	3
Introduction to Social Science	I** SS-110	4 (or 3 credits)
Anatomy & Physiology II	NS-203	4
Humanities II*	HU-200	4
		22 or 23 credit hours

<u>Summer Semester</u> - 4 weeks <u>Leadership</u>

NUR225 3

ASSOCIATE IN APPLIED ARTS & SCIENCE DEGREE

*ASSOCIATE IN ARTS & SCIENCE DEGREE

**See alternatives listed under requirements for the Associate Degree in Applied Arts and Science (page 2).



residential construction

The Residential Construction program is designed to provide the student with trade entry skills and to upgrade those presently in the occupation. Instruction includes both lecture in theory and practical applications. The program is intended to provide training for the career home building and the do-it-yourself builder.

Fall Semester Construction Methods and Materials I Foundations, Tools and Equipment Framing, Wall and Roofing Siding and Soffets Insulation, Staircases and Gutters Elective	RC110 RC122 RC123 RC124 RC125	3 3 3 3 2 17	credit hours		
Spring Semester Construction Methods and Mechanical and Electrica Interior Wall and Ceilin Interior Finishing] Installa	tion g	RC111 RC126 RC127 RC128	3 3 3 3 3	

ELECTIVES

Elective



RC129

credit hours

*These courses can be taken evenings without enrolling in the day classes.

Interior Trim, Painting, and Finishing



stenographer

The 33-credit-hour program is planned for the high school graduate who has majored in business and desires advanced studies to perfect skills, but who can spend only one year in college. A student who has little or no previous business training and can spend only one year in college may also wish to follow this curriculum. This is a one-year certificate program.

Upon completion of this intensive program, a certificate of achievement will be awarded.

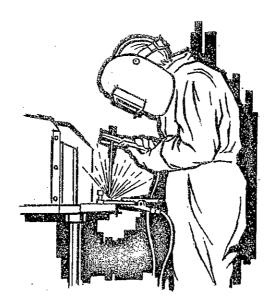
Fall Semester Intermediate Typing Intermediate Shorthand Business Mathematics Clerical Accounting Business Communications I (or II)	0E101 3 0E104 4 0E120 3 0E117 3 0E129/130 3 16 cr	redit	hours	
Spring Semester Advanced Typing Advanced Shorthand Voice Transcription Office Procedures Business Machines	0E202 0E203 0E220 0E230 0E240	3 4 3 4	credit ho	urs



welding

Welding is a skill which is essential to many industries. This program stresses the development of techniques and understanding of quality weldments. Effects of heat and stress on welded materials are studied and practiced in the laboratory. The student may develop sufficient skill for American Welding Society Certification and receive the Certificate of Achievement upon successful completion of program requirements which follow.

Fall Semester Beginning Welding Basic Design Fundamentals in Welding Welding Technique and Joint Preparation Welding and Fabrication I Shop Mathematics Shop Drawing Hydraulics and Fluid Mechanics	WE105 WE106 WE107 WE108 VE110 VE104 VE253	2 2 3 3 3 2 3 18 cre	dit ho	urs
Spring Semester Welding and Fabrication II Advanced Welding Related Welding Skills Vocational Communications Technical Writing and Speak Blueprint Reading	ing	WE120 WE121 WE122 VE100 VE102 VE106	3 3 3 2 2 16	credit hours



word processing

ONE-YEAR CERTIFICATE

This one-year program leads to a certificate in Word Processing and provides the student with a background and understanding of different types of electronic office equipment. This program is designed to prepare the student for employment as a word processing secretary and/or advancement in the word processing/secretarial field.

Fall Semester	•	
Intermediate Typing	0E101	3
Business Communications I	0E129	3
Business Mathematics	0E120	3
Word Processing I	0E225	4
Introduction to Data Processing	DP110	3
		16 credit hours

Spring Semester		
Advanced Typing	0E202	3
Business Communications II	0E130	3
Human Relations in Business	BA250	3
Word Processing II	0E226	3
Voice Transcription	0E220	· 3
•		15 credit hours



word processing

TWO-YEAR ASSOCIATE DEGREE

This graduate of this two-year associate degree program will have a knowledge of business concepts and skill in the use of several types of electronic office equipment. The student is prepared to be employed as either a word processing secretary and/or an administrative secretary. Advancement may also be attained for those students who wish to further specialize in related fields.

FIRST YEAR

Fall Semester Introduction to Data Processing Business Mathematics Freshman English I Intro. to Social Science I Business Communications I	DP110 0E120 LA100 SS110 0E129	3 3 3 4 3 16 credi	t ho	ours	
Spring Semester Word Processing I Voice Transcription Advanced Typing Freshman English II Intro. to Social Science II		0E225 0E220 0E202 LA101 SS111	4 3 3 4 17	credit	ho

SECOND YEAR

Fall Semester							
Word Processin	g II	ÓE226	.3				
Business Commu	nications II	-0È130	3				
Clerical Accou	nting	QE117	3				
Data Processin	gBĀSIC	DP115	3				
Introduction to	Business	: <u>-0</u> E1 35	3				
		BIT	15	credit	ho	ours	
	Spring Semester						
	Human Relations		· BA	1250	3		
	Word Processing		OE	227 5	3		
% ← ∴ ∧	Office Practice			230	3		
	Records Manageme		OE	175	3		
	<u>Field Experience</u>		05	290	3		
				7	15	credit	hours