

Last Revised and Approved: 12/07/2017

#### CURRICULUM

Subject Code and Course Number: CIS 066

Division: Business and Engineering Technology

Course Title: ASSEMBLY LANGUAGE PROGRAMMING

#### Summarize the need/purpose/reason for this proposal

This course won't be offered anymore.

#### **SLOs (Student Learning Outcomes)**

Given a set of logical specifications, students swill be able to create, compile, and run an Assembly Language based application.

Presented with a small Assembly Language program containing one or more syntax errors, students will be able to correct the program for proper syntax.

Presented with a small Assembly Language program containing one or more logical errors, students will be able to find and correct the errors.

## **SPOs (Student Performance Objectives)**

Upon successful completion of this course, the student will be able to...

- 1. Demonstrate effective use of Assembly language programming including computer organization, data structures and machine instruction sets.
- 2. Demonstrate an ability to provide basic documentation related to Assembly language programs.
- 3. Describe internal data representation as it is processed by Assembly language programs.
- 4. Convert from the decimal number system to the binary, octal, and hexadecimal number systems.
- 5. Demonstrate a basic knowledge of the operating system commands related to inputting and outputting.
- 6. Understand the general architecture of the 8088 processor and its related mnemonics.
- 7. Distinguish between macros and subroutines procedures and their use in program development.

## **CCOs (Course Content Outline)**

- I. The Programming Process
- II. Internal Data Representation
- III. Input/Output Representation
- IV. Instruction Sets



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V. Comparing and Branching

VI. Arithmetic Operations

VII. Subroutines

VIII. Reading Core Dumps

IX. Programming Assignments

**Methods of Instruction** 

**Methods of Evaluation of Student Performance** 

**Assignments** 

## **TECHNICAL DETAILS**

## **Catalog Description**

Computer organization and data structures; machine instruction sets; macros; subroutines; input/output control system; binary, octal and hexidecimal numbers systems; 8088 assembly mnemonics. Total of 90 hours lecture.

Transfer Credit: CSU: UC Grade Mode: L, A, P

## Prerequisite(s)

CS 002 or CIS 010; and one of the following: CS 010, CS 012, CS 043, CIS 036, CIS 064, CIS 134.

Corequisite(s)

**Recommended Preparation** 

**Enrollment Limitations** 

Instructional Activities associated with TBA

Units: 3.0



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# **CREDIT COURSE OUTLINE**

Credit Type :				
Maximum Cours	se Units :		0	
Minimum Cours	e Units:		0	
Computed Total	Carnegie Units :		0	
Course Unit Tot	als in Agreement? :		No	
Course Units Ca	arnegie Compliant by Type and	Mode?:	Yes	
Course Units Ca	arnegie Compliant in Total?:		Yes	
Total Course Ho				
COURSE HOUR	es	LECTURE	LAB	ACTIVITY
Schodulad Clas	es Maatings	0	0	Λ

COURSE HOURS	LECTURE	LAB	ACTIVITY
Scheduled Class Meetings	0	0	0
TBA Hours, Determinate Schedule	0	0	0
*Other Arranged Hours, Variable Schedule	0	0	0

(\*Student is required to meet the same number of arranged hours each day or each week)

# **Override Computed Course Units if Necessary**

COURSE HOURS	LECTURE	LAB	ACTIVITY
Scheduled Class Meetings	0	0	0
TBA Hours, Determinate Schedule	0	0	0
*Other Arranged Hours, Variable Schedule	0	0	0

# **Projected Student Registration and Attendance**

# **COURSE ATTENDANCE**

Registration Capacity 0



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Projected Census Enrollment [Total]	0
Projected Census Enrollment [Resident]	0
Projected Census Enrollment [NonResident]	0
Projected PA Hours [Total]	0
Projected PA Hours [Resident]	0
Projected PA Hours [NonResident]	0

# **COURSE VALUES (TOTAL)**

	Scheduled Class Hours			Regular TBA Hours			Variable Arranged Hours					
	LEC	LAB	ACTV	LEC	LAB	ACTV	LEC	LAB	ACTV	TOTALS		
Course Hours	0	0	0	0	0	0	0	0	0	0		
Course Units	0	0	0	0	0	0	0	0	0	0		
Load Factor	1	0.75	0.7143	1	0.75	0.7143	1	0.75	0.7143			
LHE	0	0	0	0	0	0	0	0	0	0		
FTFF	0	0	0	0	0	0	Ο	0	0	0		

# STUDENT AND FACULTY WORKLOADS (WEEKLY, FULL-TERM)

	Scheduled Class Hours		Regul	Regular TBA Hours			Variable Arranged Hours			
STUDENTS	LEC	LAB	ACTV	LEC	LAB	ACTV	LEC	LAB	ACTV	TOTALS
Instructional Hours	0	0	0	0	0	0	0	0	0	0
Study Hours	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
FACULTY										
Instructional Hours	0	0	0	0	0	0	0	0	0	0
Preparatory Hours	0	0	0	0	0	0	0	0	0	0



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Total	0	0	0	0	0	0	0	0	0	0
Repeatability : Not	Repeata	able								
	The repeatable restrictions apply for Credit Courses do not apply to Non-Credit Courses. Only Non-Credit Courses can be epeated on unlimited number of times.									
Reason for Repeat  Courses for which re  Intercollegiate acade  Intercollegiate Athleti	petition is mic or voc			najor requ	irements o	f CSU or I	UC for con	npletion of	a bachelor's	degree.
Methods of Deliver	У			_	<b>7</b> 0 Lin-	Duine				
Face-to-Face					_			nt via Inte	rnet	
Hybrid – Blend of 0	On-Camp	ous and C	On-Line	L	ITV – Ir	struction	ıal T.V.			
Maximum Class Size	(NCN)									
Minimum Qualification	ons (Disc	cipline)								
COMPUTER APPLICATION	ATIONS									
Semester of First Off	fering	Sun	nmer 201	18						
Defaul Grading Option	on									
B - Course for grade	or pass	/no pass								
Non-Default Grading	-									
B - Course for E - CE - By Ex U - NG - Non- N - Non-Credi P - Course tal L - Course tal A - Audit	grade of care graded of course ken for le	course pass/no petter grad	oass de only							
		RSE APP	LICABIL	ITY, TRA	ANSFER	AND AR	TICULAT	TION		
Course Credit Status		D Credit	– Degree	e Applic	able					
State Transfer Code:										
State Classification (	Code:									
Basic Skills Status/L	evel:									
Aligns with C-ID D	ecriptor									



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Purpose of Course					
UC Transferable					
IGETC Area: Specify Area					
Gen Ed. Local AA degree: Please specify					
AA/AS Diversity Requirement in:					
Global Studies					
Ethnic & Gender Studies					
Other: Please specify					
CareerTech Certificate: Indicate name of C	Certificate(s)				
REPRESENTATIVE TEX	TBOOKS OR OTHER MATERIALS				
Other materials and/or supplies required of students:  Abel: IBM PC Assembler Lang & Programming, 2nd Edition, Prentice-Hall Inc., Publisher, 1991.					
Abel: IBM PC Assembler Lang & Programming Inc., Publisher, 1991.					
Abel: IBM PC Assembler Lang & Programming Inc., Publisher, 1991.	g, 2nd Edition, Prentice-Hall				
Abel: IBM PC Assembler Lang & Programming Inc., Publisher, 1991.  RESOURCES &	g, 2nd Edition, Prentice-Hall				
Abel: IBM PC Assembler Lang & Programming Inc., Publisher, 1991.  RESOURCES & Additional Resources Needed:	g, 2nd Edition, Prentice-Hall				
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Abel: IBM PC Assembler Lang & Programming Inc., Publisher, 1991.  RESOURCES & Additional Resources Needed:  Facilities Needed to Teach this Course:  Equipment Needed to Teach this Course:	DEPARTMENT PLANNING				
Abel: IBM PC Assembler Lang & Programming Inc., Publisher, 1991.  RESOURCES & Additional Resources Needed:  Facilities Needed to Teach this Course:  Equipment Needed to Teach this Course:	DEPARTMENT PLANNING  AM APPLICABILITY				



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Not par	part of an approved program.	ncredit Program
Instructio	tional Methods	
Lecture	ure	
Lab		
Lecture	ure & Lab	
Distanc	ance Ed / Online Course	
Work E	k Experience	
Indepe	pendent Study	
TBA		
TOP Code	de Information Program title - TOP Co	de: 070100 *Information Technology, General
SAM Code	ode	
A - App	apprenticeship course (Courses offered to apprentic	es only.)
B - Adv level co	dvanced occupational (Courses taken in the advancourse must have a "C" level prerequisite in the sar	ced stages of an occupational program. Each "B" ne program area.)
C - Cle student	Clearly occupational (Courses taken in the middle stent with entry-level job skills.)	ages of an occupational program. Should provide the
D - Pos	Possibly occupational (Courses taken in the beginni	ng stages of an occupational program.)
E Nor	lon-occupational	
	NON CREDI	T ONLY
Funding (	g Category	IONLI
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J V	Workforce Preparation Enhanced Funding	



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	K	Other Non-Credit Enhanced Funding
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