

**Articulation Coordinating Committee  
February 27, 2019**

**APPENDIX A**

Changes for Approval to the Common Prerequisite Manual

**Program:** Information Technology **CIP:** 11.0103  
Information Systems Technology **Track:** 4/4  
**Offered At:** IRSC, MDC, SFC, SSCF **Program Length:** 120 Cr. Hrs.

SFC - BAS Information System Technology  
 NEW 3/2/11  
 REVISED 10/24/12  
 REVISED 4/4/14  
 REVISED 10/28/15

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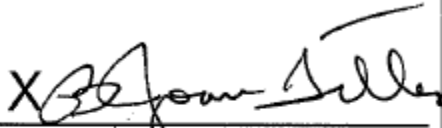
**LOWER LEVEL COURSES**

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	Cr. Hrs.	
MACX105	3	College Algebra
OR-		or higher level mathematics
<del>CGSX060</del>	<del>3</del>	<del>Introduction to Computer Networks</del>
OR-		<del>CGSX061</del>
<del>CGSX073</del>	<del>3</del>	
OR-		<del>CGSX076</del>
<del>CGSX086</del>	<del>3</del>	<del>Introduction to Data Communication</del>
OR-		<del>CGSX097</del>
&		CETX179
OR-	3	Network Concepts and Operating System
OR-	4	CTSX134
OR-	4	CTSX650
&		COPX000
OR-	3	Introduction to Programming
OR-	4	COPX334
&		CGSX540C
	3-4	Database Management

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.  
 MDC requires CGSX060 or equivalent or proficiency prior to program admission.

**I. Contact Information**

Requesting Chief Program Chair: Nasser Hedayat	Email: nhedayat@valenciacollege.edu Phone: 407-582-3326
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges):  Joan Tiller	 <hr/> First Name, Last Name Title:  Email: jtiller@valenciacollege.edu Phone: 407-582-3338
Requesting institution: Valencia College	

**II. Program Information**

Title of Degree Program: B.A.S Computer Programming and Software Development	CIP Code: 11.01.03	Track (if appropriate):4
Does this proposal align with a current track?	Yes:x	No:
Is this program approved for limited access?		x
Approved total program hours to the baccalaureate degree: 60		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major):		

**III. Proposed Changes – Add rows as necessary**

**A. All Current Approved Common Prerequisites (add rows if necessary.)**

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
MAC X105	Or higher mathCollege Algebra	3
STA X023	Or STA X014 Statistical Analysis	3
ECO X013	Or ECO X023 Macro or Micro Economics	3
SPC X608	Or SPC X017 Oral Communication	3
CET X179	Or CTS X134, Or CTS X650 Network Concepts	3-4
COP X000	Or COP X334 Intro to Programming	3-4
CGS X540C	Database Management	3-4
<b>Current Approved Common Prerequisite Credit Hours</b>		<b>21-24</b>

**B. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)**

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course
STA X023 or STA X014	3	28	12	Students will be able to take any college-level math course as the statistics course is not a prerequisite for any advanced courses.
ECO X023 or ECO X013	3	28	12	Students will be able to take any social science course as the economics course is not a prerequisite for any advanced courses.
SPC X068 or	3	28	12	Students will satisfy this requirement once they are in the Bachelor degree program. It is unnecessary

**I. Contact Information**

Requesting Chief Program Chair: Nasser Hedayat	Email: nhedayat@valenciacollege.edu Phone: 407-582-3326
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges):  Joan Tiller	<div style="text-align: center; font-size: 2em; font-weight: bold;">X</div> <hr/> First Name, Last Name Title:  Email: jtiller@valenciacollege.edu Phone: 407-582-3338
<b>Requesting institution: Valencia College</b>	

**II. Program Information**

Title of Degree Program: B.A.S Computer Programming and Software Development	CIP Code: 11.01.03	Track (if appropriate):4
Does this proposal align with a current track?	Yes:x	No:
Is this program approved for limited access?		x
Approved total program hours to the baccalaureate degree: 60		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major):		

**III. Proposed Changes – Add rows as necessary**

**A. All Current Approved Common Prerequisites (add rows if necessary.)**

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
MAC X105	Or higher mathCollege Algebra	3
STA X023	Or STA X014 Statistical Analysis	3
ECO X013	Or ECO X023 Macro or Micro Economics	3
SPC X608	Or SPC X017 Oral Communication	3
CET X179	Or CTS X134, Or CTS X650 Network Concepts	3-4
COP X000	Or COP X334 Intro to Programming	3-4
CGS X540C	Database Management	3-4
<b>Current Approved Common Prerequisite Credit Hours</b>		21-24

**B. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)**

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course
STA X023 or STA X014	3	28	12	Students will be able to take any college-level math course as the statistics course is not a prerequisite for any advanced courses.
ECO X023 or ECO X013	3	28	12	Students will be able to take any social science course as the economics course is not a prerequisite for any advanced courses.
SPC X068 or SPC X017	3	28	12	Students will satisfy this requirement once they are in the Bachelor degree program. It is unnecessary as a prerequisite; it will be a graduation requirement.

**C. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:**

Course(s) limited to 3 or less FCS institutions	Justification as to why these courses are critical for a student's success in the baccalaureate program.
N/A	

**D. If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses:**

N/A

**E. Are you requesting to delete any of the currently approved common prerequisites? If so, please list below:**

STA X023 Or STA X014 Statistical Analysis 3  
 ECO X013 Or ECO X023 Macro or Micro Economics 3  
 SPC X608 Or SPC X017 Oral Communication 3

**Review of Completion within 60 semester hours.**

**A. Course Prerequisites, if known, for Common Prerequisite**

College Level Prerequisites for Common Prerequisite Courses		
Course Prefix for	College Level Prerequisites	Cr. Hrs.
N/A		
<b>Number of College Level Prerequisites for Common Prerequisite Courses</b>		

**B. Review of Coursework**

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
-12	Minus Number of Proposed Common Prerequisite Credit Hours
-0	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
+3	Plus Number of Common Prerequisites in General Education Core
51	Equals Number Credit Hours to complete remainder of General Education

**If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:**

**V. Supporting Documentation**

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

**BAS in Software Development**

**AS to BAS**

(60 credits lower division transfers in)

<b>YEAR 1 - TERM 1</b>		
Course No.	Course Title	Cr. Hr.
ENC 1102	English Composition II	3
GEB 1011	Introduction to Business	3
COP 3330C	Object-Oriented Programming	3
CTS 1134C	Network Essentials	3
<b>Year 1, Term 1 Total</b>		<b>12</b>
<b>YEAR 1 - TERM 2</b>		
Course No.	Course Title	Cr. Hr.
SPC 1608	Fundamentals of Speech	3
STA 2023	Statistical Methods	3
GEB 3213	Business Writing and Communication	3
CEN 3024C	Software Development I	3
<b>Year 1, Term 2 Total</b>		<b>12</b>
<b>YEAR 1 - TERM 3</b>		
Course No.	Course Title	Cr. Hr.
	General Education	6
CEN 4802C	Software Integration, Configuration, and Testing	3
CEN 4025C	Software Development II	3
<b>Year 1, Term 3 Total</b>		<b>12</b>
<b>YEAR 2 - TERM 1</b>		
Course No.	Course Title	Cr. Hr.
ECO 2023	Principles of Economics-Micro	3
BUL 2241	Business Law I	3
OR		
CGS 2091C	Social, Legal, and Ethical Issues in IT	
ETI 4448C	Applied Project Management	3
CEN 4333C	Advanced Database Development	3
<b>Year 2, Term 1 Total</b>		<b>12</b>

YEAR 2 - TERM 2		
Course No.	Course Title	Cr. Hr.
CEN 4930	Seminar in Advanced Software Development	3
CIS 3304C	Management Information Systems	3
CEN 4910C	Software Development Project	3
<i>Required upper-division Software Development elective course (Select One)</i>		3
CEN 4350C	Open Source Web Technologies	
CEN 4360C	Mobile Device Software Dev	
CEN 4370C	.NET Development using C#	
Year 2, Term 2 Total		12

## BAS in Software Development

### AA to BAS

(60 credits lower division transfers in)

YEAR 1 - TERM 1		
Course No.	Course Title	Cr. Hr.
CGS 2100C	Computer Fundamentals and Applications	3
GEB 1011	Introduction to Business	3
COP 3330C	Object-Oriented Programming	3
CTS 1134C	Network Essentials	3
Year 1, Term 1 Total		12

YEAR 1 - TERM 2		
Course No.	Course Title	Cr. Hr.
CTS 1131C	Computer Maintenance Essentials	3
COP 2220C	C Programming	3
GEB 3213	Business Writing and Communication	3
CEN 3024C	Software Development I	3
Year 1, Term 2 Total		12

YEAR 1 - TERM 3		
Course No.	Course Title	Cr. Hr.
COP 2822C	Web Site Development	3
CTS 1142C	Information Technology Project Management	3
CEN 4802C	Software Integration, Configuration, and Testing	3
CEN 4025C	Software Development II	3
Year 1, Term 3 Total		12

YEAR 2 - TERM 1		
Course No.	Course Title	Cr. Hr.
STA 2023	Statistical Methods	3
BUL 2241	Business Law I	3
OR		
CGS 2091C	Social, Legal, and Ethical Issues in IT	
ETI 4448C	Applied Project Management	3
CEN 4333C	Advanced Database Development	3

Year 2, Term 1 Total 12

**YEAR 2 - TERM 2**

Course No.	Course Title	Cr. Hr.
CEN 4930	Seminar in Advanced Software Development	3
CIS 3304C	Management Information Systems	3
CEN 4910C	Software Development Project	3
<i>Required upper-division Software Development elective course (Select One)</i>		3
CEN 4350C	Open Source Web Technologies	
CEN 4360C	Mobile Device Software Dev	
CEN 4370C	.NET Development using C#	

Year 2, Term 2 Total 12

**BAS in Software Development**

AS/AA Credits Transferred In	60
Baccalaureate Credit Hours (27 Lower Division, 33 Upper Division)	60
<b>Total</b>	<b>120</b>

**Date of Submission to the Board of Governors or the Division of Florida Colleges:** January 18, 2019



**Program:** Education, Instructional Technology

**CIP:** 13.0501

**Offered At:** UWF

**Track:** 1

**Program Length:** 120 Cr. Hrs.

New CIP New Program

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### LOWER LEVEL COURSES

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#### Cr Hours

There are no common prerequisites for this degree program.

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 0	Minus Number of Proposed Common Prerequisite Credit Hours
+ 0	Plus Number of Common Prerequisites in General Education Core
60	Equals Number Credit Hours to complete the 36 remainder hours of General Education

**Contact Information**

Requesting Chief Program Chair: Dr. Nancy B. Hastings	Email: nhastings@uwf.edu Phone:850-474-3013
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges):	<p style="font-size: 2em; margin: 0;">X</p> <hr/> First Name, Last Name Title:  Email: Phone:
<b>Requesting institution: University of West Florida</b>	

**II. Program Information**

Title of Degree Program: Bachelor of Science, Instructional Design and Technology	CIP Code: 13.0501	Track (if appropriate):
Does this proposal align with a current track?	Yes:	No: X
Is this program approved for limited access?	Yes:	No: X
Approved total program hours to the baccalaureate degree: 120		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major): No other SUS institutions offer this program. No Common Prerequisites are required.		

**III. Proposed Changes – Add rows as necessary**

**F. All Current Approved Common Prerequisites (add rows if necessary.)**

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
<b>Current Approved Common Prerequisite Credit Hours</b>		

**G. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)**

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course


**H. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:**

<b>Course(s) limited to 3 or less FCS institutions</b>	<b>Justification as to why these courses are critical for a student's success in the baccalaureate program.</b>

**I. If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses:**

**J. Are you requesting to delete any of the currently approved common prerequisites? If so, please list below:**

**Review of Completion within 60 semester hours.**

**C. Course Prerequisites, if known, for Common Prerequisite**

<b>College Level Prerequisites for Common Prerequisite Courses</b>		
<b>Course Prefix for</b>	<b>College Level Prerequisites</b>	<b>Cr. Hrs.</b>
<b>Number of College Level Prerequisites for Common Prerequisite Courses</b>		

**D. Review of Coursework**

<b>Review of Common Prerequisite Completion within 60 hours</b>	
60	Credit Hours for AA Degree
-	Minus Number of Proposed Common Prerequisite Credit Hours
-	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
+	Plus Number of Common Prerequisites in General Education Core
	Equals Number Credit Hours to complete remainder of General Education

**If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:**

**V. Supporting Documentation**

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

**Date of Submission to the Board of Governors or the Division of Florida Colleges:** \_\_\_\_\_

The proposed BS in IDT will prepare graduates for positions in training and development across a variety of sectors including K-12, academia, industry, military, government, and healthcare. Essentially every organization has a training and/or development need. According to the U.S. Bureau of Labor Statistics, the median pay for Training and Development Specialists (Occupation Code 13-1151) is \$60,360. This is a highly-competitive salary considering the national median pay for all occupations combined in the U.S. is \$37,690. The U.S. Bureau of Labor Statistics projects employment in this occupation will increase 11% through 2026.

The proposed 120-semester credit hour program will be offered completely online, providing students with the flexibility to engage in courses from a distance. This option to participate virtually has been appreciated by students in the current specialization in Career and Technical Education B.S. degree program that this proposed program will replace. It has also allowed UWF IDT faculty to market the program to students in geographically diverse areas.

The demand for highly skilled professionals in the field of Instructional Design and Technology (IDT) has grown rapidly across broad sectors of the economy and is expected to continue to do so for the foreseeable future. This demand is evident in the increasing enrollments in UWF's current M.Ed. in IDT (18 in Fall 2014 to 105 in Fall 2018) and the IDT Specialization of the Ed.D. in Curriculum and Instruction (43 in Fall 2014 to 90 in Fall 2018).

There has been a marked increase in the number of jobs available for persons with bachelor's degrees in IDT. These positions are not limited to any single job sector or geographic area. The proposed fully-online BS IDT will be one of very few programs nationally offering a BS in the field, preparing students to fill these positions, meeting local, state and national needs for highly skilled professionals prepared to design and develop training and performance improvement interventions in K-12, higher education, business and industry, healthcare, and military settings.

According to the Florida Department of Economic Opportunity (FDEO), statewide projections for IDT related positions show positive increases for 2017-2025. The positions and associated growth rates are shown below:

Training and Development Managers 14.3%  
Training and Development Specialists 12.5%  
Instructional Coordinators 11.5%

The FDEO projects IDT related positions and associated growth rates for Northwest Florida as shown below:

Escambia and Santa Rosa Counties  
Training and Development Specialists 17.2%  
Instructional Coordinators 11.5%

Okaloosa and Walton Counties  
Training and Development Specialists 12.3%  
Instructional Coordinators 8.1%

**Program:** Technical Education and Industry Training      **CIP:** 13.1320  
**Offered At:** UWF, UCF      **Track:** 1  
**Program Length:** 120 Cr. Hrs.

**LOWER LEVEL COURSES**

Cr Hours

~~EDFX005~~      ~~3~~      ~~Introduction to Education Profession~~  
~~ENCX102~~      ~~3~~      ~~English Composition II~~  
~~XXXXXXXX (1)~~      ~~15~~

~~(1) — These courses from the area of specialization~~

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 3	Minus Number of Proposed Common Prerequisite Credit Hours
+ 0	Plus Number of Common Prerequisites in General Education Core

57	Equals Number Credit Hours to complete the 36 remainder hours of General Education
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Application to **Modify** Currently Approved Common Prerequisites

Degree Program Name: Technical Education and Industry Training B.S. degree

CIP Code: 13.1320

Anticipated Degree Total Hours: 120

Are other degree programs under this name currently found in the Common Prerequisite Manual (CPM)?  Yes  
 No

If yes, under what CIP code? 13.1320

Institution Requesting Modification: UCF

Name of Contact Person: Dr. Lisa Martino

Email Address: Lisa.Martino@ucf.edu Phone Number: 407/823-6184

Please list the current common prerequisites and any corresponding approved alternative courses. Please add rows to the table as appropriate.

**CIP:** 13.1320 **Track:** n/a

Current Primary Prerequisites	Current Alternative Course(s)
EDF 2005 Introduction to Education	ENC 1102

1. Does this modification of currently approved common prerequisites involve adding another track to the currently approved prerequisites within the *Common Prerequisite Manual*?

No  Yes

Maybe - depends upon Discipline Committee recommendation

If yes or maybe above, please provide justification regarding the significant differences in your curriculum that would necessitate a new track with different common prerequisites:

The mission of the Technical Education and Industry Training (TEIT) B.S. program at UCF is to prepare highly effective educators for secondary school districts, postsecondary institutions, and industry trainers who are knowledgeable in their field and research-based teaching practices. This degree does not lead to an initial teacher certification at the state level.

The current prerequisite, EDF 2005 Introduction to Education, focuses mainly on academic coursework in K12 grade levels. It is used in many state-approved teacher certification programs. As stated above, this degree does not lead to initial teacher certification and is focused mainly on secondary and postsecondary levels in career and technical education.

Students in the TEIT program can either become a CTE teacher or industry trainer. Students in the TEIT program may apply for a degreed career and technical coverage for CTE teacher certification after the program is complete, in which case the EDF 2005 course may be beneficial. Students in the TEIT program who wish to become postsecondary industry trainers may not benefit from the EDF 2005 course because they do not wish to obtain a teacher certificate.

To that end, by changing the CPP to ENC 1102, students can customize their program to align with their career goals. This would be the only difference in the program core curriculum, therefore, a different track is not necessary.

2. If adding a common prerequisite course or course substitute, please provide the following information. You can find details about individual courses at the hyperlink to the Statewide Course Numbering System (SCNS). Type in the prefix and four digit number of the proposed course and select the Search button. The resulting hyperlink of the course number leads to a page with two tabs: statewide course detail and institutions. Clicking on the institutions tab will identify the institutions offering the course.

Please add rows to the table as appropriate.

Proposed Course	Title of Proposed Course	# FCS Currently Offering Course	# SUS Currently Offering Course	Justification for the addition or deletion
ENC 1102	English Composition II	All	All	Aligns with the program goals.

3. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in your upper division.

N/A

4. If your request includes courses that are offered currently only at your institution, do you have enough elective credit hour space in your upper division curriculum so that the associate in arts transfer student can complete the courses and still be held harmless in excess hours and time?
  - a. Yes N/A
  - b. No \_\_\_\_\_
5. If your request includes courses that are offered only at your institution, are you willing and able to offer these courses online or during the summer so that transfer students can complete the courses without delaying admission for the fall?
  - a. Yes N/A
  - b. No \_\_\_\_\_
6. Is the credit hour total for required prerequisite coursework more than 24 credit hours?
  - a. Yes \_\_\_\_\_
  - b. No X

If yes, how do you anticipate students meeting the general education requirement?

- b. \_\_\_\_\_ Course(s) are anticipated to be "core" general education
- c. \_\_\_\_\_ Course(s) are anticipated to be part of most institutions' general education program
- d. \_\_\_\_\_ Other (please specify):

**Program:** Interdisciplinary Engineering

**CIP:** 14.0101

**Offered At:** FIU

**Track:** 1

**Program Length:** 120 Cr. Hrs.

New Program New CIP

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### LOWER LEVEL COURSES

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#### Cr Hours

<u>CHMX045 and CHMX045L</u> <u>Or CHMX045C</u> <u>Or CHMX440 and CHMX045L</u>	<u>4</u>	<u>General Chemistry I and Lab</u>
<u>&amp; MACX281 or MACX311</u>	<u>4</u>	<u>Calculus I</u>
<u>&amp; MACX282 or MACX312</u>	<u>4</u>	<u>Calculus II</u>
<u>&amp; MACX283 or MACX313</u>	<u>4</u>	<u>Calculus III</u>
<u>&amp; MAPX302 or MAPX305</u>	<u>3</u>	<u>Differential Equations</u>
<u>&amp; PHYX048 and PHYX048L</u> <u>Or PHYX043 and PHYX048L</u> <u>Or PHYX048C</u>	<u>5</u>	<u>Physics I with Calculus and lab</u>
<u>&amp; PHYX049 and PHYX049L</u> <u>Or PHYX044 and PHYX049L</u> <u>Or PHYX049C</u>	<u>5</u>	<u>Physics II with Calculus and lab</u>
<u>&amp; ECOX023</u>	<u>3</u>	<u>Microeconomics</u>
<u>&amp; COPX250 or COPX210</u> <u>Or COPX270 or EELX880</u>	<u>3</u>	<u>Computer programming course</u>

#### Review of Common Prerequisite Completion within 60 hours

60	Credit Hours for AA Degree
- 35	Minus Number of Proposed Common Prerequisite Credit Hours
+ 9	Plus Number of Common Prerequisites in General Education Core



**II. Contact Information**

Requesting Chief Program Chair: Mark Allen Weiss	Email: weiss@cs.fiu.edu Phone: 305.348.2036
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges): <b>Janie Valdes, Ed.D.</b> <b>Assistant Vice President</b> <b>Enrollment Management &amp; Services</b>	<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">X</div> <hr style="border: 0.5px solid black;"/> First Name, Last Name Title:  Email: valdesj@fiu.edu Phone: 305.348.0265
<b>Requesting institution: Florida International University</b>	

**II. Program Information**

Title of Degree Program: <b>Interdisciplinary Engineering</b>	CIP Code: <b>14.0101</b>	Track (if appropriate):
Does this proposal align with a current track?	Yes:	No: <b>X</b>
Is this program approved for limited access? <b>No</b>		
Approved total program hours to the baccalaureate degree: <b>120</b>		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major): <b>This is the first program in this CIP code in SUS.</b>		

**III. Proposed Changes – Add rows as necessary**

**K. All Current Approved Common Prerequisites (add rows if necessary.)**

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
N/A	N/A	N/A
<b>Current Approved Common Prerequisite Credit Hours</b>		N/A

**L. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)**

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course

CHM-1045/CHS-X440	3	all	all	Common prereq for Mechanical Eng 14.1901
CHM-1045L	1	all	all	Common prereq for Mechanical Eng 14.1901
MAC-2281/X311	4	all	all	Common prereq for Mechanical Eng 14.1901
MAC-2282/X312	4	all	all	Common prereq for Mechanical Eng 14.1901
MAC-2283/X313	4	all	all	Common prereq for Mechanical Eng 14.1901
MAP-2302/X305	3	all	all	Common prereq for Mechanical Eng 14.1901
PHY-2048/X043	4	all	all	Common prereq for Mechanical Eng 14.1901
PHY-2048L	1	all	all	Common prereq for Mechanical Eng 14.1901
PHY-2049/X044	4	all	all	Common prereq for Mechanical Eng 14.1901
PHY-2049L	1	all	all	Common prereq for Mechanical Eng 14.1901
ECO-2023	3	all	all	Common prereq for Business degrees
COP-2250/2210 2270/EEL2880	3	all	all	Common prereq for CS 11.0101, IT 11.0103, and Computer Engineering 14.0901 degrees

**M. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:**

<b>Course(s) limited to 3 or less FCS institutions</b>	<b>Justification as to why these courses are critical for a student's success in the baccalaureate program.</b>

**N. If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses:**

N/A

**O. Are you requesting to delete any of the currently approved common prerequisites? If so, please list below:**

N/A

**Review of Completion within 60 semester hours.**

**E. Course Prerequisites, if known, for Common Prerequisite**

<b>College Level Prerequisites for Common Prerequisite Courses</b>		
<b>Course Prefix for</b>	<b>College Level Prerequisites</b>	<b>Cr. Hrs.</b>
<b>Number of College Level Prerequisites for Common Prerequisite Courses</b>		

**F. Review of Coursework**

<b>Review of Common Prerequisite Completion within 60 hours</b>	
60	Credit Hours for AA Degree
- 35	Minus Number of Proposed Common Prerequisite Credit Hours
-	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
+	Plus Number of Common Prerequisites in General Education Core
	Equals Number Credit Hours to complete remainder of General Education

**If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:**

**V. Supporting Documentation**

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

**Date of Submission to the Board of Governors or the Division of Florida Colleges: 3 January 2019**

## Bachelor of Science in Interdisciplinary Engineering

### Common Prerequisite Courses and Equivalencies

FIU Course(s)	Equivalent Course(s)
CHM 1045, CHM 1045L	CHMX045/X045L or CHMX045C or CHSX440 and CHMX045L
MAC 2281	MACX311 or MACX281
MAC 2282	MACX312 or MACX282
MAC 2283	MACX313 or MACX283
MAP 2302	MAPX302 or MAPX305
PHY 2048, PHY 2048L	PHYX048/X048L or PHYX048C or PHYX043 and PHY048L
PHY 2049, PHY 2049L	PHYX049/X049L or PHYX049C or PHYX044 and PHYX049L
ECO 2023	ECOX023
EEL 2880	Intro programming in Python, C, C++, Java, or equivalent

Courses which form part of the statewide articulation between the State University System and the Florida College System will fulfill the Lower Division Common Prerequisites.

For generic course substitutions/equivalencies for Common Program Prerequisites offered at community colleges, state colleges, or state universities, visit: <http://www.flvc.org>. See Common Prerequisite Manual.

### Common Prerequisites:

CHM 1045	General Chemistry I	3
CHM 1045L	General Chemistry Lab I	1
MAC 2281	Calculus for Engineering I	4
MAC 2282	Calculus for Engineering II	4
MAC 2283	Calculus for Engineering III	4
MAP 2302	Differential Equations	3
PHY 2048	Physics with Calculus I	4
PHY 2048L	General Physics Lab I	1
PHY 2049	Physics with Calculus II	4
PHY 2049L	General Physics Lab II	1
ECO 2023	Macroeconomics	3
EEL 2880	Applied Software Techniques in Eng <sup>1</sup>	3

### Degree Program Hours: 120

The qualifications for admissions to the Interdisciplinary Engineering Program are the same as for admission to the College of Engineering and Computing.

### Lower Division Preparation

Lower division requirements include at least 60 hours of pre-engineering credits (see the Undergraduate Studies portion of this catalog for specific requirements). These courses include the common prerequisites shown above, and Introduction to Engineering. (EML-1533 Introduction to CAD for Mechanical Engineers is required unless previously taken in high school). In addition, both FIU freshman and transfer students who have not completed their core curriculum at the transfer institution must take the FIU University Core Curriculum Requirements, whose topics also complement the goals and objectives of the College of Engineering and Computing (including economic, environmental, political, and/or social issues). Students must make up any missing prerequisites before they will be allowed to begin taking certain engineering courses (see course listing for required pre-/co-requisites).

### Interdisciplinary Engineering Curriculum

<b>Common Prerequisites</b>	<b>35</b>	
<b>Additional UCC Courses</b>	<b>19</b>	
SLS 1501	Freshman Experience	1
ENC 1101	English Composition 1	3

ENC 1102	English Composition 2	3
UCC1	Humanities 1	3
UCC2	Humanities 2 (GL)	3
UCC3	Arts 1	3
UCC4	Social Science 1	3

Engineering Foundation		23
EGS 1006	Introduction to Engineering <sup>2</sup>	2
EGS 2030	Ethics and Legal Aspects in Engineering	1
CWR 3201	Fluid Mechanics	3
CWR 3201L	Fluid Mechanics Lab	1
EGN 3311	Statics	3
EGN 3321	Dynamics	3
EGN 3365	Materials in Engineering	3
EEL 3110	Circuit Analysis	3
EEL 3110L	Circuits Lab	1
EIN 3235	Evaluation of Engineering Data I <sup>3</sup>	3

Engineering Secondary Field <sup>4</sup>		12
<b>Engineering Business and Leadership</b>	<b>12</b>	
EGN 3613	Engineering Economy	3
EIN 4328	Introduction to Engineering Entrepreneurship <sup>5</sup>	3
Business or Leadership Courses <sup>6</sup>		6

Interdisciplinary Project Experiences		12
EGN 3XXX	Socio-technical Systems Design (NEW)	3
Engineering Projects Course Elective <sup>7</sup>		3
IDS 4918	Vertically Integrated Projects C <sup>8</sup>	6

### University-wide Electives

<sup>1</sup>May substitute EML-2032, COP-2210/2250, or other department specific equivalents

<sup>2</sup>Waivable for AA transfer students; other transfer students should see an advisor; may substitute department-specific equivalents

<sup>3</sup>May substitute STA-3033 or STA-3111

<sup>4</sup>Students must select twelve credits of additional required or elective courses in a degree-granting ABET-accredited program in the College of Engineering and Computing (CEC) to form a coherent secondary field. At least nine credits must be upper division courses hosted in CEC.

<sup>5</sup>May substitute ENT-4113, EEL-4933, or other course as approved by advisor.

<sup>6</sup>List held by SUCCEED. Courses may include MAN 3022: Introduction to Management and MAR 3023: Introduction to Marketing (GL)

<sup>7</sup>Project course in engineering (list held by SUCCEED) or approved co-op or independent study.

<sup>8</sup>The Vertically Integrated Project is taken in two consecutive semesters starting in the junior year for three credits each attempt. A third course (IDS 3917) may be taken in a semester prior to these two courses to fulfill the projects-course requirement.

**ABET: Science/Math: 29 from Common Prereq + EIN3235 = 32. Engineering: 23 + 9 + 6 + 12 - EIN3235 minus EGS1006 minus EIN-4328 plus EEL2880 = 45.**

<b>Program:</b>	<u>Engineering Technology</u>	<b>CIP:</b>	<u>15.0000</u>
	Instructional (B.S. Degree)	<b>Track:</b>	<u>3/3</u>
<b>Offered At:</b>	<u>UWF</u>	<b>Program Length:</b>	<u>120 Cr. Hrs.</u>
	_____		_____

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**LOWER LEVEL COURSES**

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Cr Hours

<del>MACX311</del>	<del>4</del>	<del>Calculus I</del>
<del>&amp; CHMX045</del>	<del>3</del>	<del>General Chemistry I</del>
<del>EMEX040 or CGSX570</del>		
<del>&amp; MACX105</del>		
<del>&amp; MADX104 or MACX140</del>		
<del>&amp; STAX023</del>		
<del>&amp; Select two of the following: GOPX253 or GOPX334 or CGSX464</del>		
<del>&amp; Select two of the following: GOPX334 or CGSX464 or GOPX253</del>		
<del>&amp; ECOX013</del>		
<del>&amp; PHIX603</del>		
<del>&amp; PSYX012</del>		

Common Prerequisite Application for Unique CIP/Degree Program

Degree Program Name: Engineering Technology CIP Code: 15.0000

Anticipated Degree Total Hours: 120

Are other degree programs under this name currently found in the Common Prerequisite Manual (CPM)?  Yes  No

If yes, under what CIP code: 15.9999 Track 1&2

*If your degree program is the same as above, you should use the **Application to Modify Currently Approved Common Prerequisites**.*

Institution Requesting Program Added: University of West Florida

Name of Contact Person: Dr. Michael Reynolds

Email Address of Above: mreynolds2@uwf.edu Phone Number: 850-474-2977

1. Please list your proposed common prerequisites, along with the additional information requested below. You can find details about individual courses at the following hyperlink to the Statewide Course Numbering System (SCNS). Type in the prefix and four digit number of the proposed course. The hyperlink leads to a page with two worksheets: statewide course detail and institutions. Clicking on the institutions page will identify the institutions offering the course. Be aware that there may be institutions besides Florida College System (FCS) and State University System (SUS) institutions listed.

Add additional lines if necessary.

Proposed Course Prefix and Number	Title of Proposed Course	# Credit Hrs	Will count as general ed at your institution ?	# FCS Currently Offering Course	# SUS Currently Offering Course	Additional recommended alternative courses to primary
MAC2311	Calculus 1	4	Y	28	11	
CHM 2045	General Chem 1	3	Y	28	11	

2. Is the credit hour total for required work more than 24?  
 a. Yes  b. No

If yes, how do you anticipate students meeting general education requirement:

- a.  Course(s) are anticipated to be "core" general education;
- b.  Anticipate that institutions will have course(s) as part of their institution's general education program.
- c.  Other (please specify):

3. If your request includes course(s) that are offered currently at 3 or less FCS institutions, please provide a justification as to why these courses are critical for a student's success in your upper division

DOES NOT APPLY.

4. If your request includes courses that are offered currently at only your institution, do you have the same amount of elective credit hour space in your upper division so that the associate in arts transfer student is held harmless in excess hours and time?
  - a. Yes\_\_\_\_\_
  - b. No\_\_\_\_\_
5. If your request includes courses that are offered only currently at your institution, are you willing and able to offer these courses online or during the summer so that transfer students may pick up the courses without delaying admission for the fall?
  - a. Yes\_\_\_\_\_
  - b. No\_\_\_\_\_