# PREFIX CHANGE:

# FORM FOR REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

Pro	gram: Computer Information Systems
For	mal Option: (if applicable) or Specialty Field: (if applicable)
Dep	partment: Computer Information Systems/BSIST College: Lexington Community College
Deg	gree title: Associate in Applied Science Bulletin pp.: <u>UK-224, LCC-50</u>
CIF	Code: <u>A11.0301</u> UK ID No.: HEGIS CODE:
Acc	rediting Agency (if applicable):
	I. PROPOSED CHANGE(S) IN PROGRAM REQUIREMENTS
1.	Particular University Studies Requirements or Recommendations for this program
	Not Applicable
2.	College Depth and Breadth of Study Requirements (if applicable) (including particular courses required or recommended for this program) NOTE: To the extent that proposed changes in 2. through 6. involve additional courses offered in another program, please submit correspondence with the program(s) pertaining to the availability of such courses to your students.
	Not Applicable

#### 3. Premajor or Preprofessional Course Requirements (if applicable)

<b>CIS 105</b>	Introduction to Computing	3
<b>CIS 110</b>	<b>Operating Systems Concepts</b>	3
<b>CIS 120</b>	Program Design	3
<b>CIS 130</b>	<b>Microcomputer Applications</b>	3

**Total Hours: 73-75** 

#### 4. Credit Hours Required

Current: <u>73-75</u> Proposed: <u>no change</u>

- a. Total Required for Graduation: 73
- b. Required by level:

- c. Premajor or Preprofessional (if applicable) 12
- d. Field of Concentration (if applicable) Not applicable
- e. Division of Hours Between Major Subject and Related Field (if applicable) Not applicable
- f. Hours Needed for a Particular Option or Specialization (if applicable) 24-25
- g. Technical or Professional Support Electives (if applicable) 3
- h. Minimum Hours of Free or Supportive Electives [Required] Not applicable

### 5. Major or Professional Course Requirements

Current:

#### Core

General Ed	ucation	
ENG 101	Writing I	3
<b>ENG 102</b>	Writing II	3
MA 109	College Algebra	3
	Oral Communication Course	3
	Social Interaction Course	3
	Heritage/Humanities/Foreign Language Course	3
	Science Course	3-4

Premajor Re	quirements	
CIS 105	Introduction to Computing	3
CIS 110	<b>Operating Systems Concepts</b>	3
CIS 120	Program Design	3
CIS 130	Microcomputer Applications	3
Major Requi		
CIS 150	Internet Technologies	3
CIS 160	Data Communications and Networking	4
ET 134	Computer Hardware Maintenance	3
	Approved Level I Programming Language	3
	Approved Technical Course(s)	3
Subtotal		49-50
Application	ons Option	
CIS 170	Introduction to Database Design	3
<b>CIS 220</b>	Systems Analysis and Design	3
CIS 290	<b>Information Systems Design and Implementation</b>	3
	<b>Approved Applications Specialization</b>	9
	Approved Management Course	
	Approved Accounting Course	3
Subtotal		24
Computer	Science Option	
CS215	Introduction to Program Design, Abstraction,	
	and Problem Solving*	4
CS216	Introduction to Software Engineering*	3
MA113	Calculus I*	4
MA114	Calculus II*	4
PHY241	General University Physics Laboratory*	1
	USP Requirement*	3
	USP Requirement*	3
Subtotal		22

Note: Students pursuing the Computer Science Option: MUST take CS 115, Introduction to Computer Programming (3) as their core Approved Level I Programming Language course, AND

MUST take PHY 231, General University Physics (4) as their core Science course,

AND

MUST take MA 110, Analytical Geometry and Trigonometry (4); OR MA 109, College Algebra (3) AND MA 112, Trigonometry (2) as their core Mathematics course,

### **AND**

SHOULD take EE 280, Design of Logic Circuits (3) OR CS 275, Discrete Mathematics (4) at the University of Kentucky as their core Technical Course.

# **Internet Technologies Option**

	IMD175	Web Usability Design* OR	3
	IMD180	Intermediate Web Design*	(3)
	CIS253	Data Driven Web Pages* 3	(3)
	C18 <b>286</b>	Approved Level I Web Programming Language*	3
		Approved Level II Web Programming	
Language* 3			
	<b>CIS170</b>	Database Design*	3
	CIS220	Systems Analysis and Design*	3
	CIS290	Information Systems Design and	
Implementation*	CIS294	Seminar in Web Technologies* 3	
	Subtotal		24
	Subtotal		24
	_	rsuing the Internet Technologies Option must take CIS140 or CIS149.	
	Network '	Technology Option	
	CIS 260	Network Hardware Installation and	
Troul	bleshooting	3	
	CIS 269	Internet Protocols	3
	<b>CIS 292</b>	<b>Designing Network Solutions</b>	3
		Approved Level I Network	
		<b>Technology Specialization</b>	6
		Approved Level I or II Network	
		Technology Specialization	6
		Approved Scripting Language Course	3
	Subtotal		24
	Programn	ning Option	
	CIS 170	Introduction to Database Design	3
	CIS 170 CIS 220	Systems Analysis and Design	3
	CIS 290	Information Systems Design and	3
Imnle	ementation	3	
mpic		Approved Level I Programming Language	3
		Approved Level II Programming Language	3-4
		Approved Level I or II Programming Language	3-4

	Approved Management Course Approved Accounting Course	3
Subtotal		24-25
Total		73-75
Course Cl	noice Lists	
Approved A	ccounting Courses*	
ACC 201 ACC 202	Financial Accounting I Managerial Uses of Accounting Information	3
Approved M	anagement Courses*	
BE 200 BE 283 BE 287 BE 291 QT 101	Small Business Management Principles of Management Supervisory Management Retail Management Quality Management Principles	3 3 3 3
Approved App	pplications Specializations*	
Productivity	Software Specialization	
IMD 235 AND	Advanced Word Processing	3
CIS 234 AND	<b>Advanced Spreadsheet Applications</b>	3
CIS 236	<b>Advanced Database Applications</b>	3
Database De	eveloper Specialization	
CIS 171	SQL I	3
AND CIS 271	SQL II	3
AND CIS 236	<b>Advanced Database Applications</b>	3
	Information Systems	•
GIS110 AND	Spatial Data Analysis and Map Interpretation	3
GIS120 AND	<b>Introduction to Geographic Information Systems</b>	3
GIS210	<b>Advanced Geographic Information Systems</b>	3

Approved Level I Network Technology Specializations\*

## **Windows 2000 Specialization**

<b>CIS 211</b>	Microsoft Windows Client Operating Systems:	
(Topic) 3		
AND		
<b>CIS 212</b>	<b>Microsoft Windows Server Operating Systems:</b>	
(Topic) 3	1 8 1	
(- · <b>P</b> ) ·		
Unix Specia	lization	
CIS 217	Unix Administration	3
AND		J
CIS 218	Advanced Unix Administration	3
C15 210	Advanced Unix Administration	3
CISCO Spe	<u>cialization</u>	
<b>CIS 281</b>	Routing and Switching	3
AND		
<b>CIS 282</b>	Advanced Routing and Switching	3
Note: Stude	ents pursuing the Cisco Specialization should also	
	B, Wide Area Network Management and Design in	
	plete their Cisco Certified Network Administrator	
(CCNA) pre	•	
(CC1/12) pro	pw. w.o.w	
Annroved L	evel II Network Technology Specializations*	
rippioved E	ever if ivetwork recimology specializations	
Advanced N	Microsoft Windows Specialization	
CIS 261	Microsoft Windows Directory Services	
Administration 3	When don't windows Directory Services	
And		
CIS 262	Microsoft Windows Network Infrastructure	3
C15 202	When osoft Windows Network Infrastructure	3
Approved L	evel I Programming Languages*	
<b>CIS 140</b>	JavaScript I: JavaScript and the Web	3
<b>CIS 141</b>	VBScript I: VBScript Fundamentals	3
<b>CIS 143</b>	COBOLI	3
CIS 145	Perl I: Perl Fundamentals	3
CIS 148	Visual Basic I	3
CIS 149	Java I: Java Fundamentals	3
CIS 171	SQL I	3
CS 115	Introduction to Computer Programming	3
65 116	introduction to computer 110gramming	·
Approved L	evel II Programming Languages*	
<b>CIS 243</b>	COBOL II	3
<b>CIS 245</b>	Perl II: Perl and the Web	3
<b>CIS 248</b>	Visual Basic II	3
CIS 249	Java II: Java and the Web	3
CIS 271	SQL II	3
CS 215	Introduction to Program Design, Abstraction,	
CS 210	and	
	Problem Solving	4
CS 216	Introduction to Software Engineering	3
CB 210	ind oddenou to political Eligilica ing	3

## Approved Level I Web Programming Languages\*

CIS148 CIS149 CIS171	Visual Basic I Java I: Java Fundamentals SQL I	3 3 3
Approved I	Level II Web Programming Languages*	
CIS248 CIS249 CIS271	Visual Basic II Java II: Java and the Web SQL II	3 3 3
Approved S	Scripting Languages*	
CIS 140 CIS 141 CIS 145	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals	3 3 3
Technical C	Courses*	
ACH 100 ACH 185 CAD 100 COE 199 ET 112 ET 256 GIS 120 IMD 126 IMD 226	Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIS Digital Logic Circuits Microprocessor Fundamentals Introduction to Geographic Information Systems Introduction to Desktop Publishing Advanced Desktop Publishing Additional CIS Course(s) (EXCEPT CIS103) Additional CS Course(s) (EXCEPT CS100 and CS101)	3 3 1-8 4 4 3 3 1-3
	Approved Accounting Courses 3	<b>5</b> T

<sup>\*</sup> Or other courses approved by Computer Information Systems Program Coordinator

## **Note:**

- Students may not use one course to fulfill multiple requirements.
- Students may choose CIS280 or COE199 for a maximum of 3 credit hours.

# Proposed

# All CIS prefixes will be changed to CIT,

Current	Proposed
<b>CIS103</b>	CIT103
<b>CIS105</b>	<b>CIT105</b>
CIS110	CIT110
<b>CIS120</b>	<b>CIT120</b>
<b>CIS130</b>	CIT130
<b>CIS140</b>	CIT140
<b>CIS141</b>	<b>CIT141</b>
<b>CIS143</b>	<b>CIT143</b>
<b>CIS145</b>	<b>CIT145</b>
<b>CIS148</b>	<b>CIT148</b>
<b>CIS149</b>	<b>CIT149</b>
<b>CIS150</b>	CIT150
<b>CIS160</b>	CIT160
<b>CIS170</b>	CIT170
<b>CIS171</b>	CIT171
<b>CIS211</b>	CIT211
<b>CIS212</b>	CIT212
<b>CIS213</b>	CIT213
CIS214	CIT214
CIS217	CIT217
CIS217	CIT218
CIS210	CIT220
CIS230	CIT230
CIS234	CIT234
CIS236	CIT236
CIS243	CIT243
CIS245	CIT245
CIS248	CIT248
CIS249	CIT249
CIS253	CIT253
CIS255	CIT255
<b>CIS260</b>	<b>CIT260</b>
<b>CIS261</b>	CIT261
<b>CIS262</b>	CIT262
<b>CIS263</b>	<b>CIT263</b>
<b>CIS269</b>	<b>CIT269</b>
<b>CIS271</b>	CIT271
CIS280	<b>CIT280</b>
CIS281	<b>CIT281</b>
CIS282	CIT282
CIS283	CIT283
CIS290	CIT290
CIS292	CIT292
CIS292	CIT294
O1047 1	C112/7

## CIS295 CIT295 CIS299 CIT299

# Core

General Educ ENG 101 ENG 102 MA 109	Writing I Writing II College Algebra Oral Communication Course Social Interaction Course Heritage/Humanities/Foreign Language Course Science Course	3 3 3 3 3-4
Premajor Rec CIT 105 CIT 110 CIT 120 CIT 130	quirements Introduction to Computing Operating Systems Concepts Program Design Microcomputer Applications	3 3 3
Major Requir CIT 150 CIT 160 ET 134	Internet Technologies Data Communications and Networking Computer Hardware Maintenance Approved Level I Programming Language Approved Technical Course(s)	3 4 3 3
Subtotal		49-50
Application	ons Option	
CIT 170 CIT 220 CIT 290	Introduction to Database Design Systems Analysis and Design Information Systems Design and Implementation Approved Applications Specialization Approved Management Course Approved Accounting Course	3 3 9 3
Subtotal		24
Computer	Science Option	
CS215 CS216 MA113 MA114 PHY241	Introduction to Program Design, Abstraction, and Problem Solving* Introduction to Software Engineering* Calculus I* Calculus II* General University Physics Laboratory* USP Requirement*	4 3 4 4 1 3

**Approved Level I Network** 

**Approved Level I or II Network Technology Specialization** 

**Technology Specialization** 

6

6

Language\* 3

	<b>Approved Scripting Language Course</b>	3			
Subtotal		24			
Programn	ning Option				
CIT 170 CIT 220 CIT 290 Implementation	Introduction to Database Design Systems Analysis and Design Information Systems Design and 3	3			
	Approved Level I Programming Language Approved Level II Programming Language Approved Level I or II Programming Language Approved Management Course Approved Accounting Course	3 3-4 3-4 3			
Subtotal		24-25			
Total		73-75			
Course Cl	Course Choice Lists				
Approved A	Approved Accounting Courses*				
ACC 201 ACC 202	Financial Accounting I Managerial Uses of Accounting Information	3			
Approved M	Approved Management Courses*				
BE 200 BE 283 BE 287 BE 291 QT 101	Small Business Management Principles of Management Supervisory Management Retail Management Quality Management Principles	3 3 3 3			
Approved A	pplications Specializations*				
Productivity IMD 235 AND	y Software Specialization Advanced Word Processing	3			
<b>CIT 234</b>	<b>Advanced Spreadsheet Applications</b>	3			
AND CIT 236	<b>Advanced Database Applications</b>	3			
<b>CIT 171</b>	eveloper Specialization SQL I	3			
AND CIT 271 AND	SQL II	3			

	<b>CIT 236</b>	<b>Advanced Database Applications</b>	3
	Geographic	Information Systems	
	GIS110	Spatial Data Analysis and Map Interpretation	3
	AND		
	GIS120	Introduction to Geographic Information Systems	3
	AND GIS210	Advanced Geographic Information Systems	3
	G15210	Advanced Geographic Information Systems	3
	Approved Le	evel I Network Technology Specializations*	
	Windows 20	00 Specialization	
	<b>CIT 211</b>	<b>Microsoft Windows Client Operating Systems:</b>	
(Topi			
	AND		
	CIT 212	<b>Microsoft Windows Server Operating Systems:</b>	
(Topi	c) 3		
	II C	P49	
	Unix Specia	<u>uzation</u> Unix Administration	2
	CIT 217 AND	Unix Administration	3
	CIT 218	Advanced Unix Administration	3
	C11 210	Advanced Unix Administration	3
	CITCO Spe	cialization	
	CIT 281	Routing and Switching	3
	AND		
	<b>CIT 282</b>	Advanced Routing and Switching	3
	Note: Stude	nts pursuing the Cisco Specialization should also	
	take CIT283	, Wide Area Network Management and Design in	
	order to com	plete their Cisco Certified Network Administrator	
	(CCNA) prej	paration.	
	A	wal II Natawali Tashualaan Cuasiali-atiana*	
	Approved Le	evel II Network Technology Specializations*	
	Advanced M	licrosoft Windows Specialization	
	CIT 261	Microsoft Windows Directory Services	
Admi	nistration 3	, as a second	
	AND		
	<b>CIT 262</b>	Microsoft Windows Network Infrastructure	3
	Approved Le	evel I Programming Languages*	
	CIT 140	JavaScript I: JavaScript and the Web	3
	CIT 140 CIT 141	VBScript I: VBScript Fundamentals	3
	CIT 141 CIT 143	COBOL I	
	CIT 143 CIT 145	Perl I: Perl Fundamentals	3
	CIT 145 CIT 148	Visual Basic I	3
	CIT 148 CIT 149	Java I: Java Fundamentals	3
	CIT 171	SQL I	3
	CS 115	Introduction to Computer Programming	3
		in out of computer i togiamining	9

Approved Level II Programming Languages\*

<b>CIT 243</b>	COBOL II	3
<b>CIT 245</b>	Perl II: Perl and the Web	3
<b>CIT 248</b>	Visual Basic II	3
CIT 249	Java II: Java and the Web	3
CIT 271	SQL II	3
CS 215	Introduction to Program Design, Abstraction,	
	and	4
CS 216	Problem Solving	4 3
CS 210	Introduction to Software Engineering	3
Approved I	evel I Web Programming Languages*	
<b>CIT148</b>	Visual Basic I	3
<b>CIT149</b>	Java I: Java Fundamentals	3
<b>CIT171</b>	SQL I	3
Approved I	evel II Web Programming Languages*	
<b>CIT248</b>	Visual Basic II	3
CIT249	Java II: Java and the Web	3
<b>CIT271</b>	SQL II	3
Approved S	cripting Languages*	
		3
CIT 140	JavaScript I: JavaScript and the Web	3
CIT 140 CIT 141	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals	3 3 3
CIT 140 CIT 141 CIT 145	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals	3
CIT 140 CIT 141	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals	3
CIT 140 CIT 141 CIT 145	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals	3
CIT 140 CIT 141 CIT 145	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals Courses*	3 3 3 3
CIT 140 CIT 141 CIT 145 Technical C ACH 100 ACH 185 CAD 100	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design	3 3 3 3 3
CIT 140 CIT 141 CIT 145 Technical C ACH 100 ACH 185 CAD 100 COE 199	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIT	3 3 3 1-8
CIT 140 CIT 141 CIT 145 Technical C ACH 100 ACH 185 CAD 100 COE 199 ET 112	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIT Digital Logic Circuits	3 3 3 3 1-8 4
CIT 140 CIT 141 CIT 145 Technical C ACH 100 ACH 185 CAD 100 COE 199 ET 112 ET 256	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIT Digital Logic Circuits Microprocessor Fundamentals	3 3 3 1-8 4 4
CIT 140 CIT 141 CIT 145 Technical C ACH 100 ACH 185 CAD 100 COE 199 ET 112 ET 256 GIS 120	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIT Digital Logic Circuits Microprocessor Fundamentals Introduction to Geographic Information Systems	3 3 3 1-8 4 4 3
CIT 140 CIT 141 CIT 145  Technical C  ACH 100 ACH 185 CAD 100 COE 199 ET 112 ET 256 GIS 120 IMD 126	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals  Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIT Digital Logic Circuits Microprocessor Fundamentals Introduction to Geographic Information Systems Introduction to Desktop Publishing	3 3 3 1-8 4 4 3 3
CIT 140 CIT 141 CIT 145 Technical C ACH 100 ACH 185 CAD 100 COE 199 ET 112 ET 256 GIS 120	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals  Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIT Digital Logic Circuits Microprocessor Fundamentals Introduction to Geographic Information Systems Introduction to Desktop Publishing Advanced Desktop Publishing	3 3 3 3 1-8 4 4 3 3 3
CIT 140 CIT 141 CIT 145  Technical C  ACH 100 ACH 185 CAD 100 COE 199 ET 112 ET 256 GIS 120 IMD 126	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals  Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIT Digital Logic Circuits Microprocessor Fundamentals Introduction to Geographic Information Systems Introduction to Desktop Publishing Advanced Desktop Publishing Additional CIT Course(s) (EXCEPT CIT103)	3 3 3 1-8 4 4 3 3
CIT 140 CIT 141 CIT 145  Technical C  ACH 100 ACH 185 CAD 100 COE 199 ET 112 ET 256 GIS 120 IMD 126	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals  Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIT Digital Logic Circuits Microprocessor Fundamentals Introduction to Geographic Information Systems Introduction to Desktop Publishing Advanced Desktop Publishing	3 3 3 3 1-8 4 4 3 3 3
CIT 140 CIT 141 CIT 145  Technical C  ACH 100 ACH 185 CAD 100 COE 199 ET 112 ET 256 GIS 120 IMD 126	JavaScript I: JavaScript and the Web VBScript I: VBScript Fundamentals Perl I: Perl Fundamentals  Courses*  Construction Documents I Computer-Aided Drafting I Introduction to Computer-Aided Design Cooperative Education: CIT Digital Logic Circuits Microprocessor Fundamentals Introduction to Geographic Information Systems Introduction to Desktop Publishing Advanced Desktop Publishing Additional CIT Course(s) (EXCEPT CIT103) Additional CS Course(s)	3 3 3 1-8 4 4 3 3 3 1-3

<sup>\*</sup> Or other courses approved by Computer Information Systems Program Coordinator

#### **Note:**

- Students may not use one course to fulfill multiple requirements.
- Students may choose CIT280 or COE199 for a maximum of 3 credit hours.

#### 6. Minor Requirements (if applicable)

Not Applicable Total Hours: <u>73-75</u>

7. <u>Rationale for Change(s)</u>: (If rationale involves accreditation requirements, please include specific references to those requirements.)

This change to the Computer Information Systems Program is necessary to avoid confusion due to the impending inclusion of LCC's catalog of courses with KCTCS's catalog. Since 1998, several courses have been changed at LCC and within KCTCS so that there is no longer an exact match between courses with the same number. At the same time, new course have been created in both systems using the same numbers, for example CIS255 and CIS262.

8. List below the typical semester by semester program for a major.

<u>Current (Note: Semester by semester program represents General Education, Premajor, and Major Core courses.)</u>

An asterisk indicates a required course.

### <u>First Year – Summer Session:</u>

CIT 105	Introduction to Computing*	3
	Social Interaction Course*	3
Subtotal		6

#### First Year – Fall Semester:

<b>CIT 110</b>	<b>Operating Systems Concepts*</b>	3
CIT 120	Program Design*	3
<b>CIT 130</b>	Microcomputer Applications*	3
<b>ENG 101</b>	Writing I*	3
MA 109	College Algebra*	3
	Oral Communications Course*	3
Subtotal		18

#### First Year – Spring Semester:

		<b>OPTION REQUIREMENT*</b>	3
	150	Internet Technologies*	3 3 3
	G 102	Writing II*	3
ET	_	Computer Hardware Maintenance*	3
CH	160	Data Communications and	4
		Networking*	4
		Approved Level I Programming Language*	3
		Language	3
Sub	total		19
Second Ye	ear – Fa	ıll Semester:	
		OPTION REQUIREMENT*	3
		OPTION REQUIREMENT*	3
		OPTION REQUIREMENT*	3 3 3
		OPTION REQUIREMENT*	
		Science Course*	3-4
Sub	total		15-16
Second Ye	ear – Sp	oring Semester:	
		OPTION REQUIREMENT*	3
		OPTION REQUIREMENT*	3 3 3
		OPTION REQUIREMENT*	3
		Heritage/Humanities/Foreign	
		Language Course*	3
		Approved Technical Course*	3-4
Sub	total		15-16
Total			73-75

Will this program be printed in the Bulletin? Yes  $\boxtimes$  No  $\square$