

A. COMPUTER INFORMATION SYSTEMS

FORM FOR REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

Program: Computer Information Systems

Formal Option: (if applicable) _____ or Specialty Field: (if applicable) _____

Department: Computer Information Systems/BSIST College: Lexington Community College

Degree title: Associate in Applied Science Bulletin pp.: UK-224, LCC-50

CIP Code: A11.0301 UK ID No.: _____ HEGIS CODE: _____

Accrediting 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)

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

Total Hours: 73-75

4. Credit Hours Required

Current: 73-75 Proposed: no change

a. Total Required for Graduation: 73

b. Required by level:

100 52 200 21
300 _____ 400-500 _____

- 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 Education

ENG 101	Writing I	3
ENG 102	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 Requirements

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

Major Requirements

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

Applications Option

CIS 170	Introduction to Database Design	3
CIS 220	Systems Analysis and Design	3
CIS 290	Information Systems Design and Implementation	3
	Approved Applications Specialization	9

Approved Management Course	3
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*	3
		OR	
	IMD180	Intermediate Web Design*	(3)
	CIS253	Data Driven Web Pages* 3	
		Approved Level I Web Programming Language*	3
		Approved Level II Web Programming	
Language* 3			
	CIS170	Database Design*	3
	CIS220	Systems Analysis and Design*	3
	CIS290	Information Systems Design and	
Implementation* 3			
	CIS294	Seminar in Web Technologies* 3	
Subtotal			24

Note: Students pursuing the Internet Technologies Option must take CIS171 and either CIS140 or CIS149.

Network Technology Option

Troubleshooting	CIS 260	Network Hardware Installation and	
		3	
	CIS 269	Internet Protocols	3
	CIS 292	Designing Network Solutions	3
		Approved Level I Network	
		Technology Specialization	6
		Approved Level I or II Network	
	Technology Specialization	6	
	Approved Scripting Language Course	3	
	Subtotal		24

Programming Option

Implementation	CIS 170	Introduction to Database Design	3
	CIS 220	Systems Analysis and Design	3
	CIS 290	Information Systems Design and	
		3	
		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	3	
	Approved Accounting Course	3	
	Subtotal		24-25
	Total		73-75

Course Choice Lists

Approved Accounting Courses*

ACC 201	Financial Accounting I	3
ACC 202	Managerial Uses of Accounting Information	3

Approved Management Courses*

BE 200	Small Business Management	3
BE 283	Principles of Management	3
BE 287	Supervisory Management	3
BE 291	Retail Management	3
QT 101	Quality Management Principles	3

Approved Applications Specializations*

Productivity Software Specialization

IMD 235	Advanced Word Processing	3
	AND	
CIS 234	Advanced Spreadsheet Applications	3
	AND	
CIS 236	Advanced Database Applications	3

Database Developer Specialization

CIS 171	SQL I	3
	AND	
CIS 271	SQL II	3
	AND	
CIS 236	Advanced Database Applications	3

Approved Level I Network Technology Specializations*

Windows 2000 Specialization

CIS 211	Microsoft Windows Client Operating Systems: (Topic) 3	
	AND	
CIS 212	Microsoft Windows Server Operating Systems: (Topic) 3	

Unix Specialization

CIS 217	Unix Administration	3
	AND	
CIS 218	Advanced Unix Administration	3

CISCO Specialization

CIS 281	Routing and Switching	3
	AND	
CIS 282	Advanced Routing and Switching	3
	<i>Note: Students pursuing the Cisco Specialization should also take CIS283, Wide Area Network Management and Design in order to complete their Cisco Certified Network Administrator (CCNA) preparation.</i>	

Approved Level II Network Technology Specializations*

Advanced Microsoft Windows Specialization

CIS 261	Microsoft Windows Directory Services Administration 3	
	AND	
CIS 262	Microsoft Windows Network Infrastructure	3

Approved Level I Programming Languages*

CIS 140	JavaScript I: JavaScript and the Web	3
CIS 143	COBOL I	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

Approved Level II Programming Languages*

CIS 243	COBOL II	3
CIS 245	Perl II: Perl and the Web	3
CIS 248	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, and Problem Solving	4
CS 216	Introduction to Software Engineering	3

Approved Level I Web Programming Languages*

CIS148	Visual Basic I	3
CIS149	Java I: Java Fundamentals	3
CIS171	SQL I	3

Approved Level II Web Programming Languages*

CIS248	Visual Basic II	3
CIS249	Java II: Java and the Web	3
CIS271	SQL II	3

Approved Scripting Languages*

CIS 140	JavaScript I: JavaScript and the Web	3
CIS 145	Perl I: Perl Fundamentals	3

Technical Courses*

ACH 100	Construction Documents I	3
ACH 185	Computer-Aided Drafting I	3
CAD 100	Introduction to Computer-Aided Design	3
COE 199	Cooperative Education: CIS	1-8
ET 112	Digital Logic Circuits	4
ET 256	Microprocessor Fundamentals	4
GIS 120	Introduction to Geographic Information Systems	3
IMD 126	Introduction to Desktop Publishing	3
IMD 226	Advanced Desktop Publishing	3
	Additional CIS Course(s) (EXCEPT CIS103)	1-3
	Additional CS Course(s) (EXCEPT CS100 and CS101)	3-4
	Approved Accounting Courses	3

*** 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

Core

General Education

ENG 101	Writing I	3
ENG 102	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 Requirements

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

Major Requirements

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

Applications Option

CIS 170	Introduction to Database Design	3
CIS 220	Systems Analysis and Design	3
CIS 290	Information Systems Design and Implementation	3
	Approved Applications Specialization	9
	Approved Management Course	3
	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:
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AND
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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,
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Internet Technologies Option

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		OR	
	IMD180	Intermediate Web Design*	(3)
	CIS253	Data Driven Web Pages* 3	
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		Approved Level II Web Programming	
Language* 3			
	CIS170	Database Design*	3
	CIS220	Systems Analysis and Design*	3
	CIS290	Information Systems Design and	
Implementation* 3			
	CIS294	Seminar in Web Technologies* 3	
	Subtotal		24

Note: Students pursuing the Internet Technologies Option must take CIS171 and either CIS140 or CIS149.

Network Technology Option

	CIS 260	Network Hardware Installation and Troubleshooting	3
	CIS 269	Internet Protocols	3
	CIS 292	Designing Network Solutions	3
		Approved Level I Network Technology Specialization	6
		Approved Level I or II Network	

	Technology Specialization	6
	Approved Scripting Language Course	3
Subtotal		24

Programming Option

CIS 170	Introduction to Database Design	3
CIS 220	Systems Analysis and Design	3
CIS 290	Information Systems Design and	
Implementation	3	
	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	3
	Approved Accounting Course	3
Subtotal		24-25
Total		73-75

Course Choice Lists

Approved Accounting Courses*

ACC 201	Financial Accounting I	3
ACC 202	Managerial Uses of Accounting Information	3

Approved Management Courses*

BE 200	Small Business Management	3
BE 283	Principles of Management	3
BE 287	Supervisory Management	3
BE 291	Retail Management	3
QT 101	Quality Management Principles	3

Approved Applications Specializations*

Productivity Software Specialization

IMD 235	Advanced Word Processing	3
	AND	
CIS 234	Advanced Spreadsheet Applications	3
	AND	
CIS 236	Advanced Database Applications	3

Database Developer Specialization

CIS 171	SQL I	3
	AND	
CIS 271	SQL II	3

AND
CIS 236 Advanced Database Applications 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

Approved Level I Network Technology Specializations*

Windows 2000 Specialization

CIS 211 Microsoft Windows Client Operating Systems:
(Topic) 3

AND

CIS 212 Microsoft Windows Server Operating Systems:
(Topic) 3

Unix Specialization

CIS 217 Unix Administration 3

AND

CIS 218 Advanced Unix Administration 3

CISCO Specialization

CIS 281 Routing and Switching 3

AND

CIS 282 Advanced Routing and Switching 3

Note: Students pursuing the Cisco Specialization should also take CIS283, Wide Area Network Management and Design in order to complete their Cisco Certified Network Administrator (CCNA) preparation.

Approved Level II Network Technology Specializations*

Advanced Microsoft Windows Specialization

CIS 261 Microsoft Windows Directory Services
Administration 3

AND

CIS 262 Microsoft Windows Network Infrastructure 3

Approved Level I Programming Languages*

CIS 140 JavaScript I: JavaScript and the Web 3

CIS 141 VBScript I: VBScript Fundamentals 3

CIS 143 COBOL I 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

Approved Level II Programming Languages*

CIS 243 COBOL II 3

CIS 245 Perl II: Perl and the Web 3

CIS 248 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,
and
Problem Solving 4**

CS 216 Introduction to Software Engineering 3

Approved Level I Web Programming Languages*

CIS148 Visual Basic I 3

CIS149 Java I: Java Fundamentals 3

CIS171 SQL I 3

Approved Level II Web Programming Languages*

CIS248 Visual Basic II 3

CIS249 Java II: Java and the Web 3

CIS271 SQL II 3

Approved Scripting Languages*

CIS 140 JavaScript I: JavaScript and the Web 3

CIS 141 VBScript I: VBScript Fundamentals 3

CIS 145 Perl I: Perl Fundamentals 3

Technical Courses*

ACH 100 Construction Documents I 3

ACH 185 Computer-Aided Drafting I 3

CAD 100 Introduction to Computer-Aided Design 3

COE 199 Cooperative Education: CIS 1-8

ET 112 Digital Logic Circuits 4

ET 256 Microprocessor Fundamentals 4

GIS 120 Introduction to Geographic Information Systems 3

IMD 126 Introduction to Desktop Publishing 3

IMD 226 Advanced Desktop Publishing 3

Additional CIS Course(s) (EXCEPT CIS103) 1-3

Additional CS Course(s)

(EXCEPT CS100 and CS101) 3-4

Approved Accounting Courses 3

*** 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.

6. Minor Requirements (if applicable)

Not Applicable

Total Hours: 73-75

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

This change to the Computer Information Systems Program is necessary to add the VBScript course to the list of Approved Level I Programming Languages and Approved Scripting Languages. Also added is an Application Option specialization in Geographic Information Systems.

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

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

An asterisk indicates a required course.

First Year – Summer Session:

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

First Year – Fall Semester:

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

First Year – Spring Semester:

	OPTION REQUIREMENT*	3
CIS 150	Internet Technologies*	3

ENG 102	Writing II*	3
ET 134	Computer Hardware Maintenance*	3
CIS 160	Data Communications and Networking*	4
	Approved Level I Programming Language*	3
Subtotal		19

Second Year – Fall Semester:

	OPTION REQUIREMENT*	3
	OPTION REQUIREMENT*	3
	OPTION REQUIREMENT*	3
	OPTION REQUIREMENT*	3
	Science Course*	3-4
Subtotal		15-16

Second Year – Spring Semester:

	OPTION REQUIREMENT*	3
	OPTION REQUIREMENT*	3
	OPTION REQUIREMENT*	3
	Heritage/Humanities/Foreign Language Course*	3
	Approved Technical Course*	3-4
Subtotal		15-16

Total 73-75

Will this program be printed in the Bulletin? Yes No

