UNIVERSITY FACULTY SENATE FORMS

Academic Program Approval

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

Submitted by:	Keith Decker	phone number831-1959
Department:	CISC	email addressdecker@udel.edu
Date:	_November 2010	
Action:(Ex	_revise major_ ample: add major/minor/concent concentration, academic unit nan	ration, delete major/minor/concentration, revise ne change, request for permanent status, policy change, etc.)
Effective term	11F	
	(use format 04F, 05W)	
Current degree	BS	
	(Example: BA, BACH, B.	ACJ, HBA, EDD, MA, MBA, etc.)
Proposed change	leads to the degree of:	BS
r oposou onange	ionus to the degree of.	BS (Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)
Revising or Delet	(if app	ed or new major / minor / concentration / academic unit icable)
Undergra	duate major / Concentr	ation:
0	(1	ation: Example: Applied Music – Instrumental degree BMAS)
Undergrae	duate minor:	n Studies, Business Administration, English, Leadership, etc.)
	(Example: Africa	n Studies, Business Administration, English, Leadership, etc.)
Graduate	Program Policy statem	ent change: (Must attach your Graduate Program Policy Statement)
Graduate	Program of Study: (Example: Animal Science: N	MS Animal Science: PHD Economics: MA Economics: PHD)
Graduate	minor / concentration:_	

Note: all graduate studies proposals must include an electronic copy of the Graduate Program Policy Document, highlighting the changes made to the original policy document.

List new courses required for the new or revised curriculum. How do they support the overall program objectives of the major/minor/concentrations)?

(Be aware that approval of the curriculum is dependent upon these courses successfully passing through the Course Challenge list. If there are no new courses enter "None")

Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education: http://www.ugs.udel.edu/gened/

No substantive changes are being made: Breadth requirements wording is changed (not amount or distribution) and one technical elective is changed.

Identify other units affected by the proposed changes:

(Attach permission from the affected units. If no other unit is affected, enter "None")

none

Describe the rationale for the proposed program change(s):

(Explain your reasons for creating, revising, or deleting the curriculum or program.)

The Department of Computer and Information Sciences moved from the College of Arts & Sciences to the College of Engineering. The wording changes are to bring the catalog description into alignment with the new College.

The Department also underwent a major curriculum evaluation with respect to the ACM/IEEE curriculum recommendations, which resulted in the decision to remove the requirement for CPEG 202, replacing it with a fourth Technical Elective. Students interested in more hardware exposure will be advised to take CPEG courses (including a possible future CPEG Minor) as a part of their four-course BS-CS Concentration.

Program Requirements:

(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the current curriculum and **include a side-by-side comparison** of the credit distribution before and after the proposed change.)

NO CHANGE IN CREDIT DISTRIBUTION

DEGREE: BACHELOR OF SCIENCE MAJOR: COMPUTER SCIENCE

CURRICULUM	CREDITS
UNIVERSITY REQUIREMENTS	

ENGL 110 Critical Reading and 3 Writing

(minimum grade C-)

First Year Experience (FYE) 0-4

Discovery Learning Experience (DLE)

Multi-cultural Courses

3

COLLEGE REQUIREMENTS

Breadth Requirements

21

The College of Engineering requires 21 total credits, which includes 9 additional credits above and beyond the 12 University Breadth Requirement credits. Coursework may include courses from the University Breadth Requirement list and the <u>College of Engineering Supplemental Course list</u>. See <u>College of Engineering Breadth</u>

<u>Requirements</u> for a detailed description. For timely progress toward degree completion, 3 credits must satisfy the University multi-cultural requirement. All courses must be passed with a minimum grade of C-.

MAJOR REQUIREMENTS

CISC 108	Introduction to	3		
	Computer Science I			
	(minimum grade C-)			
<u>CISC 181</u>	Introduction to	3		
	Computer Science			
	II(minimum grade C-)			
<u>CISC 220</u>	Data Structures	3		
	(minimum grade C-)			
<u>CISC 260</u>	Machine Organization	3		
	and Assembly			
	Language (minimum			
	grade C-)			
<u>CISC 275</u>	Introduction to	3		
	Software Engineering			
<u>CISC 303</u>	Automata Theory	3		
<u>CISC 320</u>	Introduction to	3		
	Algorithms			
<u>CISC 355</u>	Computers, Ethics and	3		
	Society	_		
<u>CISC 360</u>	Computer Architecture	3		
<u>CISC 361</u>	Operating Systems	3		
<u>CISC 475</u>	Advanced Software	3		
	Engineering			
An additional twelve credits of Computer 12				
Science technical electives numbered 301 or				
above, approved by the student's advisor				

Twelve credits in advanced courses in an advisor-approved

CISC concentration

12

Students are encouraged to explore how other subject areas impact and are impacted by computer science. Approval by the student's CISC advisor is required. Concentration courses must be distinct from other CISC requirements and technical electives.

MATH 350

Probability Theory

MATH 210

Discrete Mathematics 3

8

I(minimum grade C-)

MATH 241/MATH

Analytic Geometry

<u>242</u>

and Calculus A/B

Twelve credits in science courses including one 12 of the following sequences of laboratory science courses:

<u>PHYS 207 - PHYS</u>

Fundamentals of

208 or **Physics**

CHEM 103 - CHEM

General Chemistry

<u>104</u> or

BISC 207 - BISC 208

Introductory Biology

or

GEOL 105/GEOL 115/ GEOL 107 Geological Hazards and Laboratory.

General Geology

Either CISC 304, MATH 349, or a substitute

from the list at http://www.cis.udel.edu/drupalWeb/mathrecommendations approved beforehand by the student's advisor 3

ENGL 312

Written

3

Communications in

Business

or

ENGL 410

Technical Writing

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

124

ROUTING AND AUTHORIZATION:

(Please do not remove supporting documentation.)

Department Chairperson Daniel Clester	Date_ 12/1/2010
Dean of College // Ml CM	Date 12/8/10
Chairperson, College Curriculum Committee That You	Date 12/6/2010
Chairperson, Senate Com. on UG or GR Studies	Date
Chairperson, Senate Coordinating Com	Date
Secretary, Faculty Senate	Date
Date of Senate Resolution	Date to be Effective
RegistrarProgram Code	Date
Vice Provost for Academic Affairs & International Programs	Date
Provost	Date
Board of Trustee Notification	Date
Revised 02/09/2009 /khs	

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