

Curriculum Change Form
 (Present only one proposed curriculum change per form)
 (Complete only the section(s) applicable.)

Part I

(Check one) <input type="checkbox"/> New Course (Parts II, IV) <input type="checkbox"/> Course Revision (Parts II, IV) <input type="checkbox"/> Course Dropped (Part II) <input type="checkbox"/> New Program (Part III) <input checked="" type="checkbox"/> Program Revision (Part III) <input type="checkbox"/> Program Suspended (Part III)	Department Name <u>Computer Science</u> College <u>Arts and Sciences</u> *Course Prefix & Number _____ *Course Title (30 characters) _____ *Program Title <u>Computer Science (B.S.)</u> (Major <u>x</u> , Option _____; Minor _____; or Certificate _____) *Provide only the information relevant to the proposal.
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Proposal Approved by: Departmental Committee	<u>Date</u> <u>3/3/08</u>	Graduate Council* Council on Academic Affairs	<u>Date</u> <u>NA</u>
<i>Is this a SACS Substantive Change? Yes*** <input type="checkbox"/> No <input checked="" type="checkbox"/></i>		Approved <u>X</u> Disapproved _____	<u>04/17/08</u>
College Curriculum Committee	<u>3/24/08</u>	Faculty Senate**	<u>Pending</u>
General Education Committee*	<u>NA</u>	Board of Regents**	<u>Pending</u>
Teacher Education Committee*	<u>NA</u>	Council on Postsecondary Edu.***	<u>NA</u>

*If Applicable (Type NA if not applicable.)
 **Approval needed for new, revised, or suspended programs
 ***Approval/Posting needed for new degree program or certificate program
 ****If "yes", SACS must be notified before implementation. Please contact EKU's Office of Institutional Effectiveness.

Completion of A, B, and C is required: (Please be specific, but concise.)

A. 1. Specific action requested: (Example: To increase the number of credit hours for ABC 100 from 1 to 2.)
 Revise the Computer Science degree to include a new option in Computer Security, modify the courses required by the core and options, and reword the science course requirement in the general option, update the supporting courses for the Tech and Bioinformatics options.

A. 2. Effective date: (Example: Fall 2001)
 Fall 2008

A. 3. Effective date of suspended programs for currently enrolled students: (if applicable)

B. The justification for this action:
 We see a definite need and interest in a computer security program. Also we are revising our existing courses to improve retention in the early courses and update the program to include more database experience. We are also rewriting the science requirements for the general option to be easier to understand. This includes minor changes to the Tech and Bioinformatics options.

C. The projected cost (or savings) of this proposal is as follows:

Personnel Impact: None
 Operating Expenses Impact: None
 Equipment/Physical Facility Needs: None
 Library Resources: None

Part III. Recording Data for New, Revised, or Suspended Program

1. For a new program, provide the catalog description as being proposed.
2. For a revised program, provide the current program requirements using ~~strickthrough~~ for deletions and underlines for additions.
3. For a suspended program, provide the current program requirements as shown in catalog. List any options and/or minors affected by the program's suspension.

New or Revised* Program Text
 (*Use ~~strickthrough~~ for deletions and underlines for additions.)

Computer Science (B.S.)

CIP Code: 11.0101

Major Requirements.....30-48 hours
Computer Science Core 24 hours
 CSC ~~460~~, 185, 190, 191, 195, 310, 340, and two of CSC 300, 303, 304, ~~312~~, 313, 320, 330, 350, 370, 390, 400, 425, 440, 460, 490, 491, 520, 538, 540, 544, 545, 546, and 550 that are not ~~required by~~ used for credit in the option.

Options

Computer Science (General) 24 hours
(Accredited by the Computer Science Accreditation Commission of the ~~Computer Science Accreditation Board ABET~~)

CSC 200, ~~312~~, 320, 330, 370, 400, 440, ~~and 460~~, and 545.

Computer Technology ~~12~~ 21 hours

CSC 200, ~~312~~, 330, 370, 440, 460, one of CSC 313 or 545; and 3 hours of CSC 349¹.

Bioinformatics 6 hours

~~CSC 320 and 540~~ One of CSC 303 or 520; one of CSC 313 or 545.

Interactive Multimedia 24 hours

CSC 120, 140, 303, 304, 330, 491, 520, and 550.

Computer Security 21 hours

CSC 200, 313, 330, 370, 538, 544, and one of CSC 400 or 460.

Supporting Course Requirements 30-55 hours

Computer Science (General) 31-35 hours

EET 252; MAT 124* or 124H, 214, 224 or 224H, STA 270. ~~Four courses in the natural sciences which must include one biological lab science course and one physical lab science course. Two of these four courses must also be one of the following sequences: BIO 121, 131; BIO 121, 141; CHE 111/115, 112/116; GLY 108, 109; or PHY 201, 202. The other two courses must be chosen from the above sequence courses or from the following: PHY 131, 132; or any 200 level or above science course that counts toward a science major. If the BIO 121, 131 or BIO 121, 141 sequence is taken, both of the other two courses must be physical lab science courses taken from the above list of courses. One of the following two plans:~~

Plan 1: One sequence from Biological lab science courses (BIO 121, 131; or BIO 121, 141); and any two additional courses taken from CHE 111/115, CHE 112/116, GLY 108, GLY 109, PHY 131, PHY 132, PHY 201, or PHY 202.

Plan 2: One sequence from Physical lab science courses (CHE 111/115, 112/116; GLY 108, 109; or PHY 201, 202); BIO 121; and one additional course from CHE 111/115, CHE 112/116, GLY 108, GLY 109, PHY 131, PHY 132, PHY 201, PHY 202, or any 200 level or above science course that counts toward a science major.

Computer Technology 30-31 hours

EET 251, 252, 253, 254, ~~257~~, 302, 303, 343, 351, and 354; one of MAT 124*, 124H, 211*, or 261*

Bioinformatics 55 hours

BIO 121, 315, 331, 348, 511, 533, 3 hours of BIO 598; 3 hours of BIO 349; CHE 111/115, 112/116, 330, 361, 362; MAT 124* or 124H, STA 270, 320.

Interactive Multimedia 34-35 hours

COM 200; EET 252; MKT 301; MUS 290; STA 270; Two of ART 200, ARH 390 or 391; MAT 124*, 124H, 211*, or 261*; PHY 131 or 201; TEC 190, 255, 313, or 355; MAT 214*, 214H, or 3 credits from COM 320A-I.

Computer Security	28 hours
<u>APS 110, 438; EET 252, 303, 343, 354; one of MAT 124* or 124H; PLS 220, 408.</u>	
General Education Requirements	30-45 hours
Computer Science (General)	30 hours
Standard General Education Program, excluding blocks II, IVA, IVB, VII (NS) and VIII (6 hours). Refer to Section Four of this Catalog for details on the General Education and University Requirements	
Computer Technology	45 hours
Standard General Education Program, excluding block II. Refer to Section Four of this Catalog for details on the General Education and University Requirements	
Bioinformatics	33 hours
Standard General Education Program, excluding blocks II, IVA, IVB, and VIII (6 hours). Refer to Section Four of this Catalog for details on the General Education and University Requirements	
Interactive Multimedia	33 hours
Standard General Education Program, excluding blocks II, IIIA, IVB, VII (6 hours) Refer to Section Four of this Catalog for details on the General Education and University Requirements	
Computer Security	45 hours
<u>Standard General Education Program, excluding block II. Refer to Section Four of this Catalog for details on the General Education and University Requirements</u>	
University Requirement	1 hour
ASO 100.	
Free Electives	6-18 hours
Computer Science (General)	14-18 hours
Computer Technology	6-7 hours
Bioinformatics	9 hours
Interactive Multimedia	11-12 hours
Computer Security	9 hours
Total Curriculum Requirements	128 hours

¹Under special circumstances, a student may seek an administrative waiver of the CSC 349 requirement from the Computer Science Curriculum Committee and the department chair. Waiver recipients are required to complete three semester hours of additional course work approved by the Computer Science Curriculum Committee

*A preparatory course in Mathematics (MAT 107 and/or MAT 109) may be required before admission to calculus