

Approval Chart for Curriculum Changes

A = Approve I= Information Item¹ R= Advise & Respond²

Course Number _____ or Degree Plan(s) Computer Science (BS)
 State the requested change and reason. A memo may be attached if more space is necessary.

See attached document

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

		COUNCIL ³								
	Change to a Course	Dept./School	College Academic	Deans	TEC	UGEC	UUAC	GRAD	Provost	President
1.	Title (description unchanged)	A	A	A	I				I	I
2.	Description (not affecting content)	A	A	A	I				I	I
3.	Content (substantive change)	A	A	A	I				A	A
4.	Number of hours (lecture, lab, contact)	A	A	A	A				A	A
5.	Course number within the hundred	A	A	I	I				I	I
6.	Course number beyond the hundred	A	A	A	A				A	A
7.	Prerequisites	A	A	A	I				I	I
8.	Course fee(s)	A	--	A	--				A	I
9.	From U to G <i>or</i> G to U	A	A	A	A				A	A
10.	Cross list with another department: U or G level	A	A	A	A				A	A
11.	Department of record	A	A	A	A				A	A
12.	Open or close a course	A	A	A	A				A	A
13.	New course — See website for application and process. This change includes combining or splitting a course(s).	A	A	A	A				A	A

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

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		COUNCIL ³										
	Change to a Degree Plan	Dept./School	College Academic	Deans	TEC	UGEC	UUAC	GRAD	Provost	Faculty	President	Board of Trustees
1.	University Requirements — Change in approved course content ⁶	A	A	A	A				A	--	A	--
2.	University Requirements — Add or drop a required course from the University Requirements chart ⁶	A	A	A	A				A	A	A	--
3.	University Requirements — Add or drop a course from a menu within the University Requirements ⁶	A	--	--	A				A	--	A	--
4.	University Requirements — Change hours within a menu on the University Requirements chart ⁶	A	A	A	A				A	A	A	--
5.	Major — Revision of major ^{4,5}	A	A	A	A				A	--	A	--
6.	Major — Adopt or change admission requirements	A	A	A	A				A	--	A	--
7.	Major — Add ^{4,5}	A	A	A	A				A	A	A	I
8.	Major – Discontinue (proposed by the department or college)	A	A	A	A				A	A	A	I
9.	Major -- Discontinue (proposed by the Provost)	See below.										
10.	GPA — Revise major or cumulative requirement	A	A	A	A				A	A	A	--
11.	Minor --- Revise course selection	A	A	A	I				I	--	I	--
12.	Minor --- Add	A	A	A	A				A	--	A	--
13.	Minor – Discontinue (proposed by the department or college)	A	A	A	A				A	--	A	--
14.	Minor – Discontinue (proposed by the Provost)	See below.										
15.	Degree — Add	A	A	A	A				A	A	A	I
16.	Degree – Discontinue (proposed by the department or college)	A	A	A	A				A	A	A	I
17.	Degree – Discontinue (proposed by the Provost)	See below.										
18.	Any change to a graduate degree program	A	A	A	A				A	--	A	--

COUNCIL ³										
	Provost-Proposed Change	Provost	Department	Dean	TEC	UUAC	Graduate	Faculty	President	Board of Trustees
1.	Major/Graduate Program – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I
2.	Minor – Discontinue (proposed by the Provost)	A	R	R	A			--	A	--
3.	Degree – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I

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COUNCIL³

	Change to the Catalog Information	Dept./School	College Academic	Deans	UGEC	UUAC	GRAD	Provost	Faculty	President
1.	General requirements for graduation including course requirements that are common to all majors for all degrees ⁷	--	--	--		A		A	A	A
2.	Admission requirements	--	--	--		A		A	A	A
3.	Policies governing academic probation and suspension	--	--	--		A		A	A	A
4.	Requirements for graduating with honors	--	--	--		A		A	A	A
5.	Other academic policy changes	--	--	--		A		A	--	A

¹ Councils may request additional information about "Information" items. These items are approved as "Consent Agenda."

² The Dean and Department should respond to the Provost's recommendation to close a program in writing. Advise & Respond (R) requires that the voting body should receive the written responses at least one week prior to the vote.

³ All courses that meet University Requirements for general education must go through UGEC. Courses or degrees offered only to students seeking teacher certification must go through the Teacher Education Council. All undergraduate changes must go before the UUAC. All graduate degree plan changes must go through the Graduate Council.

⁴ A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

⁵ Program or course changes that apply to any major that includes Teacher Certification will be reviewed by the college, the Teacher Education Council (TEC), and then the UUAC.

⁶ Courses that satisfy ACU's University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and "not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession" (SACS 2.7.3). Departments may request exceptions to the first three criteria.

⁷ The UUAC approved the clarification that "general requirements for graduation" means the enumerated items in the "General Requirements for Bachelor's Degrees" section of the catalog.

Revised 1-29-16

Curriculum/Catalog Changes Signature Page

Department/School Chair(s)	
 Signature	10.03.16 Approval date
_____ Signature	_____ Approval date

College Academic Council(s)	
 Signature	10-3-16 Approval date
_____ Signature	_____ Approval date

Dean(s)	
 Signature	10/18/16 Approval date
_____ Signature	_____ Approval date

Teacher Education Council	
_____ Chair's signature	_____ Approval date

General Education Council	
_____ Chair's signature	_____ Approval date

Undergraduate Academic Council	
_____ Chair's signature	_____ Approval date

Graduate Council	
_____ Chair's signature	_____ Approval date

Provost	
_____ Signature	_____ Approval date

Faculty	
_____ Chair of faculty senate	_____ Approval date

President	
_____ Signature	_____ Approval date

MAJOR REQUIREMENTS (30 hours)

BS: Computer Science Degree Plan (CS) – 2017-2018 - proposed

Computer Science

CS 120 Programming I
 CS 130 Programming II: Data Structures
 CS 220 Computer Organization and Single-User Systems
 CS 230 Object-Oriented Programming
 CS 332 Design and Analysis of Algorithms
 CS 374 Software Engineering
 IT 220 Introduction to Databases and DBMS
 IT 221 Fundamentals of Networking and Data Communications
 ITC 110 Intro to Information, Technology and Computing
 ITC 480 Reflections on Faith and Work (capstone and writing-intensive)

MAJOR SELECTION OR CONCENTRATION (33 hours)*You must complete the requirements for one of these three concentration areas.***Computing Theory (CT) Total: 33 hours**

CS 341 Numerical Methods
 CS 352 Programming Languages
 CS 356 Operating Systems
 CS 365 Theory of Computation
 CS 467 Introduction to Artificial Intelligence
 ITC 399 ITC Research (3 semester hours)
 Select 3 hours from: CS 381, CS 412, ITC 399
 MATH 186 Calculus II
 MATH 187 Calculus Computer Laboratory [1 hour]
 Select 6 hours from: MATH 286, 325, 334, 361, or 432
 Select 8 hours (up to 6 hours count toward university requirements) from:
 CHEM 131, 132, 133, 134
 PHYS 110, 111, 112, 113

Software Engineering (SE) Total: 33 hours

Select 3 hours from: CS 315 Mobile Application Development or CS 316 Advanced Mobile Application Development
 CS 330 Human-Computer Interaction
 CS 375 Software Engineering II
 ITC 495 ITC Internship
 IT 325 Web Application Development
 Select 3 hours from: IT 310 Introduction to Computer and Information Security or IT 472 Advanced Security
 Select 6 hours from CS 300-499
 Select 9 hour block from the following choices:
 MGMT 305, 430, 432; BLAW 363
 CS 300-499; IS 405; IT 300-499; ITC 300-499; DET 210, MATH 186, 286, 187, 334

Game Development Total: 33 hours

DET 210 Intro to Digital Entertainment
 DET 310 Digital Entertainment Technology II
 DET 350 Digital Entertainment Development
 Select 3 hours from: DET 200-499
 Select 3 hours from: CS 330 Human-Computer Interaction or CS 381 Graphics
 CS 375 Software Engineering II
 Select 3 hours from: ITC 399 (ITC Research) or ITC 495 (ITC Internship)
 Select 12 hours from: CS 300-499; DET 300-499; IT 300-499; ITC 300-499; IS 405

SUPPLEMENT FOR MAJOR (3 hours, after counting 6 toward university requirements)**Mathematics**

MATH 185 Calculus I
 MATH 227 Discrete Mathematics
 MATH 377 Statistical Methods I

ELECTIVES (6 hours)

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Deleted: ITC 460 Managing Technical Projects (capstone and writing-intensive course)

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Deleted: CS 495 Senior Seminar (may substitute for ITC 460 above)

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Deleted: 6

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Deleted: CS 320, 355, 381, 420, or ITC 100-499

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Deleted: Computing I

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Deleted: CS 355 Compiler Construction

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Deleted: CS 474 Object-Oriented Design

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Deleted: CS 316, 320, 352, 376; IS 405, or ITC 100-499

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Deleted: or Business

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Deleted: DET 210, 310, 350 ... [2]

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Deleted: 330, 410, 420

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Deleted: or

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Deleted: ... [3]

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Deleted: CS 381 Graphics ... [4]

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Deleted: Select 6 hours from: CS 315, 316, 467, or 474 ... [5]

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Deleted: Select 9 hours from: CS 100-499, DET 100-499, IT 100-499, ITC 100-499, Math 100-499, or IS 405

Summary of Changes from 2016-2017 catalog:

- 1.) In Requirements for all CS majors, changed requirement of capstone and writing intensive course from ITC460 MTP to ITC 480 Reflections on Faith and Work.
- 2.) The “general” option/track has been removed. Students must now pick one of the three available concentrations.
- 3.) Changes to the Computing Theory Track:
 - a. The requirement for CS495 was changed to ITC399 ITC Research. This is no longer a possible substitution for ITC 460
 - b. The first 6 hour menu of: CS320, 355, 381, 420, or ITC 100-499 was changed to a 3 hour menu containing the following courses: CS 381 Graphics, CS 442 Numerical Analysis, and CS 495 Senior Seminar. This changed was partially motivated by the discontinuation of 3 of the courses in the previous menu. The decrease from 6 hours to 3 hours is because of the inclusion of ITC 399 (and ITC 460 can no longer fill two requirements).
- 4.) Changes to the Software Engineering Track:
 - a. CS 355 Compiler Construction was replaced with ITC 495 ITC Internship
 - b. CS 474 OOD was replaced with CS 376 Software Engineering II
 - c. Replace requirement for CS 315 with the requirement to select either CS 315 or CS 316, as CS316 will be changing in the future, not requiring CS 315 as a prerequisite.
 - d. Added more MATH classes to 9 hour menu
 - e. The requirement for IT 472 Advanced Security is expanded into a two-choice option with IT 310, since IT 472 is offered only every other year
- 5.) Changers to the Game Development Track:
 - a. DET 350 course name changed to “Digital Entertainment Development”
 - b. DET 410 was removed as this will be a DET majors-only course
 - c. CS 376 Software Engineering II is now required
 - d. Requirement added for 3 hours of ITC 399 ITC Research or ITC 495 ITC Internship
 - e. Requirement of CS 330 and CS 381 moved into menu – pick one of the two
 - f. The 6 hour menu and the 9 hour menu were consolidated into one 12 hour menu. The menu selections for all courses in this menu were restricted to 300-499 level classes.

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Computer Science Selection

Select 4 advanced CS electives [12]

Select 4 advanced CS,IT,ITC,DET,MATH;IS 405 [12]

Select 3 CS,IT,DET,IS,ITC,MATH or specified set from supporting area:

Business/Entrepreneurship, Math, Biology, Chemistry, Engineering, Physics [9]

Total: 33

Selections may be used toward one of the following concentrations:

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DET 210, 310, 350

Any 3 from

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DET 410 Digital Entertainment Technology III

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CS 381 Graphics

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Select 6 hours from: CS 315, 316, 467, or 474