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Curriculum Subcommittee Agenda 2 February 2017

A meeting of the Curriculum Subcommittee of the Educational Policies Committee will be held on 2 February 2017 at 2:00 pm in Old Main 136 (Champ Hall Conference Room).

1. *Approval of 12 January 2017 Minutes* ([link](#))
2. *Program Proposals*
Request from the Department of Computer Science in the College of Engineering to offer a Computer Science Teaching Minor. ([link](#))
3. *Semester Course Approval Reviews*
<https://usu.curriculog.com/>

1. AG - ADVS - 5530

2. AG - AV - 3280

3. BU - ACCT - 2010

4. BU - ACCT - 3110

3. ED - ELED - 3000

4. ED - ELED - 5050

5. EN - BENG - 4880

6. EN - BENG - 5500

7. EN - BENG - 5850

8. EN - BENG - 6670

9. EN - CEE - 3160

10. EN - MAE - 5360

11. HS - HIST - 3330

12. HS - PHIL - 1500

13. TEE - 1000

College of Agriculture and Applied Sciences

ADVS = 1

APEC =

ASTE = 2

LAEP =

NDFS =

PSC =

Caine College of the Arts

ART =
MUSC =
THEA =

Jon M. Huntsman School of Business

ACCT = 2
BUS =
ECN =
MGT =
MIS =

Emma Eccles Jones College of Education and Human Services

COMD =
EDUC =
FCHD =
KHS =
ITLS =
NURS =
PSY =
SPER =
TEAL = 2

College of Engineering

BENG = 4
CEE = 1
CS =
ECE =
EED =
MAE = 1

College of Humanities and Social Sciences

ENGL =
HIST = 1
JCOM =
LPCS = 1
POLS =
SSWA =

S.J. & Jessie E. Quinney College of Natural Resources

ENVS =
WATS =
WILD =

College of Science

BIOL =
CHEM =
GEOL =
MATH =
PHYS =

USU =

CAS =

4. ***Other Business***

Curriculog shut down – actions to be taken.

Adjourn:

CURRICULUM SUBCOMMITTEE MINUTES

12 January 2017

A meeting of the Curriculum Subcommittee of the Educational Policies Committee was held on 12 January 2017 at 2:00 pm in Old Main 136 (Champ Hall Conference Room).

Present: Vijay Kannan, Chair, Jon M. Huntsman School of Business
Brian Warnick, College of Agriculture and Applied Sciences
Scott Hunsaker, Emma Eccles Jones College of Education and Human Services
Michele Hillard, Secretary
Cara Allen, Graduate Council
Richard Mueller, College of Science
Matt Sanders, College of Humanities and Social Sciences
Dean Adams, College of Engineering
Scott Henrie, USU-Eastern
Barbara Williams, Catalog Editor
Ryan Bentall, USUSA Executive Vice President
Nicholas Morrison, Caine College of the Arts
Ed Reeve, Chair, EPC
Jessica Hansen, Academic and Instructional Services
Nathan Straight, Regional Campuses
Claudia Radel, S.J. & Jessie E. Quinney College of Natural Resources
Clint Pumphrey, Libraries

Absent: Scott Bates, Chair, Academic Standards
Ty Aller, Graduate Studies Senator
Janet Anderson, Office of the Provost
Heidi Kesler, Registrar's Office
Fran Hopkin, Registrar's Office

Visitors: Erin Brewer, Project Coordinator, Climate Adaptation Sciences
Nancy Huntly, Director, Ecology Center
Andy Walker, Department Head, Instructional Technology and Learning Sciences
Gretchen Peacock, Department Head, Psychology
Kerry Rood, Animal Dairy and Veterinary Sciences
Bruce Miller, Department Head, School of Applied Sciences, Technology and Education

1. Approval of 1 December 2016 Minutes

Motion to approve the minutes of the 1 December 2016 meeting made by Dean Adams. Seconded by Nick Morrison. Minutes approved.

2. Program Proposals

Request from the Department of Computer Science in the College of Engineering to offer a Master of Science in Data Science.

Proposal will be held until February when new/updated proposal will be submitted.

Request from the Department of Computer Science in the College of Engineering to offer a Computer Science Teaching Minor.

Proposal will be held until February when new/updated proposal will be submitted.

Request from the School Applied Sciences, Technology and Education in the College of Agriculture and Applied Sciences to offer a Bachelor of Science in Technology Systems.

Remove CMST 3250 and replace with CMST 2110. Motion to approve the proposal pending revision made by Brian Warnick. Seconded by Nick Morrison. Proposal approved.

Request from the Department of Animal, Dairy and Veterinary Science in the College of Agriculture and Applied Sciences to offer a Minor in Equine Assisted Activities and Therapies.

Revise certification language. Third paragraph should say students. Motion to approve the proposal pending revisions made by Brian Warnick. Seconded by Nick Morrison. Proposal approved.

Request from the Department of Instructional Technology and Learning Sciences in the Emma Eccles Jones College of Education and Human Services to change the name of the Master of Learning Technology and Instructional Design to Master of Arts in Instruction Technology and Learning.

Motion to approve the proposal made by Ryan Bentall. Seconded by Matt Sanders. Proposal approved.

Request from the Department of Psychology in the Emma Eccles Jones College of Education and Human Services to restructure the EAPS specialization into four new specializations: Behavior Analysis, Brain and Cognition, Quantitative Psychology and Sociobehavioral Epidemiology.

Include definition of EAPS and number of students. Motion to approve the proposal pending revisions made by Scott Hunsaker. Seconded by Nick Morrison. Proposal approved.

Request from the Department of Mathematics and Statistics in the College of Science to offer a Master's Degree in Data Analytics.

Ensure consistency of acronym of MDA. Motion to approve the proposal pending revision made by Dick Mueller. Seconded by Nick Morrison. Proposal approved.

3. Semester Course Approval Reviews

<https://usu.curriculog.com/>

College of Agriculture and Applied Sciences

Motion to approve the business of the College of Agriculture and Applied Sciences made by Brian Warnick. Seconded by Dick Mueller. Business approved.

ADVS =

APEC = 1

ASTE = 7

LAEP =

NDFS =

PSC = 1

Caine College of the Arts

Motion to approve the business of the Caine College of the Arts made by Nick Morrison. Seconded by Dick Mueller. Business approved.

ART = 5

MUSC =

THEA =

Jon M. Huntsman School of Business

Motion to approve the business of the Jon M. Huntsman School of Business made by Dick Mueller. Seconded by Dean Adams. Business approved.

ACCT =

BUS =

ECN = 1

MGT =

MIS =

Emma Eccles Jones College of Education and Human Services

Motion to approve the business of the Emma Eccles Jones College of Education and Human Services made by Scott Hunsaker. Seconded by Nick Morrison. Business approved.

COMD = 2 (COMD 7930 apostrophe after students)

EDUC =

FCHD =

KHS =

ITLS =

NURS =

PSY = 1

SPER =

TEAL =

College of Engineering

Motion to approve the business of the College of Engineering made by Dean Adams. Seconded by Dick Mueller. Business approved.

BENG =

CEE =

CS = 3 (CS 1400 & 1405 wait listing is not available)

ECE =

EED = 2

MAE = 1

College of Humanities and Social Sciences

Motion to approve the business of the College of Humanities and Social Sciences made by Matt Sanders. Seconded by Ryan Bentall. Business approved.

ENGL =

HIST =

JCOM =
LPCS = 2
POLS =
SSWA =

S.J. & Jessie E. Quinney College of Natural Resources

Motion to approve the business of the S.J. & Jessie E. Quinney College of Natural Resources made by Claudia Radel. Seconded by Nick Morrison. Business approved.

ENVS =
WATS = 2
WILD =

College of Science

Motion to approve the business of the College of Science made by Dick Mueller. Seconded by Dean Adams. Business approved.

BIOL = 1
CHEM =
GEOL =
MATH =
PHYS =

Motion to approve the USU and CAS business made by Nick Morrison. Seconded by Dean Adams. Business approved.

USU = 1
CAS = 5

4. *Other Business*

Ed Reeve presented guidelines for submitting R401 program proposals to the Provost's office. Moving R401 submissions to Curriculog. Will begin submitting through Curriculog July 1, 2017.

Adjourn: 2:55 pm

**Utah System of Higher Education
New Academic Program Proposal
Cover/Signature Page - Abbreviated Template**

Institution Submitting Request: Utah State University
 Proposed or Current Program Title: Computer Science Teaching Minor
 Sponsoring School, College, or Division: College of Engineering
 Sponsoring Academic Department(s) or Unit(s): Computer Science
 Classification of Instructional Program Code¹ : 11.07
 Min/Max Credit Hours Required of Full Program: 16 / 18
 Proposed Beginning Term²: Spring 2018
 Institutional Board of Trustees' Approval Date:

<input type="checkbox"/> Certificate of Proficiency	<input type="checkbox"/> Entry-level CTE CP	<input type="checkbox"/> Mid-level CP
<input type="checkbox"/> Certificate of Completion		
<input checked="" type="checkbox"/> Minor		
<input type="checkbox"/> Graduate Certificate		
<input type="checkbox"/> K-12 Endorsement Program		
<input type="checkbox"/> NEW Emphasis for Regent-Approved Program		
<input type="checkbox"/> Out of Service Area Delivery Program		

Chief Academic Officer (or Designee) Signature:

I, the Chief Academic Officer or Designee, certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

_____ Date:

I understand that checking this box constitutes my legal signature.

¹ For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.

² "Proposed Beginning Term" refers to first term after Regent approval that students may declare this program.

**Utah System of Higher Education
Program Description - Abbreviated Template**

Section I: The Request

Utah State University requests approval to offer the following Minor: Computer Science Teaching Minor effective Spring 2018. This program was approved by the institutional Board of Trustees on .

Section II: Program Proposal/Needs Assessment

Program Description/Rationale

Present a brief program description. Describe the institutional procedures used to arrive at a decision to offer the program. Briefly indicate why such a program should be initiated. State how the institution and the USHE benefit by offering the proposed program. Provide evidence of student interest and demand that supports potential program enrollment.

The minor will be approved at the department and college level.

Many math teaching majors (and to some extent science teaching majors) have asked about a CS teaching credential. This interest has been ongoing for the last ten years. At the most recent majors meeting, this topic received a lot of discussion.

USU has one of the top education programs in the nation. It makes sense to attach a CS teaching credential to our education program. Additionally, there is an increasing need for CS in our state.

Computer Science for All is the President's new initiative to empower all American students from kindergarten through high school to learn computer science and be equipped with the computational thinking skills they need to be creators in the digital economy. Both educators and business leaders are increasingly recognizing that computer science is a "new basic" skill necessary for economic opportunity and social mobility.

Labor Market Demand

Provide local, state, and/or national labor market data that speak to the need for this program. Occupational demand, wage, and number of annual openings information may be found at sources such as Utah DWS Occupation Information Data Viewer (jobs.utah.gov/jsp/wi/utalmis/gotoOccinfo.do) and the Occupation Outlook Handbook (www.bls.gov/oco).

According to the occupation Outlook Handbook, median pay for Career and Technical Education Teachers was \$53,800 per year in 2015. There were 231,800 jobs in 2014 with a expected 4% growth grade (2014-2024).

According to NCWIT (The National Center for Women and Information Technology), by 2024, 1.1 million computing-related job openings are expected. At the current rate, only 41% of these jobs could be filled by U.S. computing bachelor's degree recipients. Students need the opportunity to receive this vital training.

In order to produce the needed supply of Computer Science graduates, we need Computer Science instruction in the high schools. Creation of this teaching minor will help to provide Computer Science instruction.

Consistency with Institutional Mission/Impact on Other USHE Institutions

Explain how the program is consistent with the institution's Regents-approved mission, roles, and goals. Institutional mission and roles may be found at higher.utah.org/policies/policyr312/. Indicate if the program will be delivered outside of designated service area; provide justification. Service areas are defined in higher.utah.org/policies/policyr315/.

This program is consistent with the mission of Utah State University as it aids teacher preparation.

Last year, there were more than 600,000 high-paying tech jobs across the United States that were unfilled, and by 2018, 51 percent of all STEM jobs are projected to be in computer science-related fields. Computer science and data science are not only important for the tech sector, but for so many industries, including transportation, healthcare, education, and financial services.

The citizens of Utah need access to this important training.

Other USHE institutions have expressed interest in the program. Currently, there is a Teaching Minor offered at the University of Utah and Weber State. Since the teaching minor is associated with a traditional education degree, it is important for the teaching minor to be available locally.

Finances

What costs or savings are anticipated in implementing the proposed program? If new funds are required, indicate expected sources of funds. Describe any budgetary impact on other programs or units within the institution.

\$6K per year will be required to teach CS4350, the new methods course. Other required classes are currently being taught and require no new funding. Funds will be paid for out of normal departmental budgets.

Section III: Curriculum

Program Curriculum

List all courses, including new courses, to be offered in the proposed program by prefix, number, title, and credit hours (or credit equivalences). Indicate new courses with an X in the appropriate columns. The total number of credit hours should reflect the number of credits required to receive the award. **For NEW Emphases, skip to emphases tables below.**

For variable credits, please enter the minimum value in the table below for credit hours. To explain variable credit in detail as well as any additional information, use the narrative box below.

		Course Number	NEW Course	Course Title	Credit Hours
General Education Courses (list specific courses if recommended for this program on Degree Map)					
General Education Credit Hour Sub-Total					
Required Courses					
+	-	CS 1400		Introduction to Computer Science CS1	4
+	-	CS1410		Introduction to Computer Science CS2	3
+	-	CS2420		Algorithms and Data Structures CS3	3
+	-	CS4350		Teaching Methods	3
+	-	SCED3300		Clinical Experience 1	1
+	-				
+	-				
+	-				
+	-				
Required Course Credit Hour Sub-Total					14
Elective Courses					
+	-	CS2410		Introduction to Event Driven Programming and GUI's	3
+	-	CS2610		Developing Dynamic, Database-Driven, Web Applications	3
+	-	CS3100		Operating Systems and Concurrency	3
+	-	CS3200		Mobile Application Development	3
+	-	CS3430		Scientific Computing with Python	3
+	-	CS3450		Introduction to Software Engineering (CI)	3
+	-	CS4700		Programming Languages	3
+	-			Any advisor approved class numbered 5000 or above (3-4 credits)	3
+	-				
+	-			(Select two electives)	
Elective Credit Hour Sub-Total					6
Core Curriculum Credit Hour Sub-Total					20

Program Curriculum Narrative

Describe any variable credits. You may also include additional curriculum information, as needed.

The 5000 level courses may be 4 credits.

Degree Map

Degree maps pertain to undergraduate programs ONLY. Provide a degree map for proposed program. Degree Maps were approved by the State Board of Regents on July 17, 2014 as a degree completion measure. Degree maps or graduation plans are a suggested semester-by-semester class schedule that includes prefix, number, title, and semester hours. For more details see <http://higheredutah.org/pdf/agendas/201407/TAB%20A%202014-7-18.pdf> (Item #3).

Please cut-and-paste the degree map or manually enter the degree map in the table below

First Year Fall	Cr. Hr.	First Year Spring	Cr. Hr.
CS 1400: Introduction to Computer Science--CS	4	CS 1410: Introduction to Computer Science--CS	3
Total	4	Total	3
Second Year Fall	Cr. Hr.	Second Year Spring	Cr. Hr.
CS 2420: Algorithms and Data Structures--CS	3	CS Elective	3
Total	3	Total	3
Third Year Fall	Cr. Hr.	Third Year Spring	Cr. Hr.
CS Elective	3	CS4350 Computer Science Teaching Methods	3
Total	3	Total	3
Fourth Year Fall	Cr. Hr.	Fourth Year Spring	Cr. Hr.
SCED3300	1		
Total	1	Total	