

**Institute Undergraduate Curriculum Committee**  
**Academic Matters (Full Committee)**  
**Tuesday, July 23, 2013**

**Present:** Hollengreen (ARCH), Pikowsky (REG), Senf (LCC), Smith (ME), Goodisman (BIOL), Sankar (AE), Berry (PUBP), Loss (MATH), Mayor (ME), Yaszek (LMC)

**Visitors:** Laros (REG), Merkousko (REG), Ferri (ME), Wynens (LEAD), Raczynski (CS), Prvulovic (CS)

**Note:** All action items in these minutes require approval by the Academic Senate. In some instances, items may require further approval by the Board of Regents or the University System of Georgia. If the Regents' approval is required, the change is not official until notification is received from the Board to that effect. Academic units should take no action on these items until USG and/or BOR approval is secured. In addition, units should take no action on any of the items below until these minutes have been approved by the Academic Senate or the Executive Board.

**Academic Matters**

1. A motion was made to approve a request from the College of Computing for a Degree Modification, a Minor Modification, and to acknowledge Prerequisite Modifications. The motion was seconded and approved.

**Degree Modification: Approved**

Bachelor of Science in Computing  
(Systems and Architecture threaded concentrations)

- Removal of CS 3240 from requirements as this course is going to be sunsetted.
- Addition of CS 4210 to picks as this was erroneously left off when the thread was formed.
- Addition of CS 4220 as the faculty feels this course is consistent with the goals of the Systems & Architecture thread and thus should be in a pick.
- Removal of CS3251 because it is not central to the thread and the Information Internetworking thread covers this. Students who wish this content can take the Systems & Architecture thread and the Information Internetworking thread for their degree path.
- Renaming of two of the three picks to reflect better their content.

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**PROPOSED** THREAD: INTELLIGENCE & SYSTEMS AND ARCHITECTURE

REQUIREMENT	REQ HRS	COURSE(S)	NOTES
Wellness	2	<a href="#">HPS 1040</a>	
Core A - Essential Skills	3	<a href="#">ENGL 1101</a>	
	3	<a href="#">ENGL 1102</a>	
	4	<a href="#">MATH 1501</a>	
Core B - Institutional Options	3	<a href="#">CS 1301</a>	c
Core C - Humanities	6	<a href="#">Any HUM</a>	
Core D - Science, Math, & Technology	4	<a href="#">PHYS 2211</a>	a
	4	<a href="#">Lab Science</a>	a
	4	<a href="#">MATH 1502</a>	
Core E - Social Sciences	3	<a href="#">HIST 2111</a> or <a href="#">HIST 2112</a> or <a href="#">INTA 1200</a> or <a href="#">POL 1101</a> or <a href="#">PUBP 3000</a>	
	3	<a href="#">PSYC 1101</a>	
	6	<a href="#">Any SS</a>	
Core F - Courses Related to Major	4	<a href="#">Lab Science</a>	a
	1	<a href="#">CS 1100</a>	
	3	<a href="#">CS 1331</a>	c
	3	<a href="#">CS 1332</a>	c
	3	<a href="#">CS 2050</a> or <a href="#">CS 2051</a>	c
	4	<a href="#">MATH 2605</a>	
Major Requirements	3	<a href="#">CS 2340</a>	c
	3	<a href="#">CS 4001</a> or <a href="#">CS 4002</a>	c
	3	<a href="#">CS 4980</a> or <a href="#">CS 4911</a>	c
Concentration	4	<a href="#">CS 2110</a>	c
	4	<a href="#">CS 2200</a>	c
	3	<a href="#">CS 3210</a>	c
	3	<del><a href="#">CS 3240</a></del>	c
	3	<a href="#">CS 3510</a> or <a href="#">CS 3511</a>	c
	3	<a href="#">CS 3600</a>	c

	3	<a href="#">CS 3630</a> or <a href="#">CS 3790</a> or <a href="#">PSYC 3040</a>	c
	6	<a href="#">CS 4495</a> or <a href="#">CS 4635</a> or <a href="#">CS 4641</a> or <a href="#">CS 4731</a>	c
-	<del>3</del>	<del><a href="#">CS 3220</a> or <a href="#">CS 4290</a></del>	e
-	<del>3</del>	<del><a href="#">CS 3251</a> or <a href="#">CS 3300</a> or <a href="#">CS 4240</a></del>	e
	3	<del><a href="#">CS 3240</a> or <a href="#">CS 4510</a></del> <span style="border: 1px solid red; padding: 2px;">CS 3240 is being replaced in the curriculum but can be used as an exception as needed.</span>	c
	3	<a href="#">CS 3220</a> or <a href="#">CS4210</a>	c
	3	<a href="#">CS 3300</a> or <a href="#">CS 4240</a>	c
	3	<a href="#">CS 4220</a> or <a href="#">CS 4290</a>	c
<b>Other Required Courses</b>	3	<a href="#">LCC 3403</a>	
	3	<a href="#">MATH 3012</a>	
	3	<a href="#">MATH 3215</a> or <a href="#">MATH 3770</a> or <a href="#">CEE 3770</a> or <a href="#">ISYE 3770</a> or ( <a href="#">ISYE 2027</a> and <a href="#">ISYE 2028</a> )	
<b>Free Electives</b>	<del>10</del> 7	<b>Free Electives</b>	
<b>TOTAL:</b>	126		

Pass-fail only allowed for Free Electives (max 6 hours), CS 1100, and CS 1171 (if required)

## NOTES

a = Two of three lab sciences MUST be a sequence.

c = C-minimum required

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**PROPOSED** THREAD: DEVICES & SYSTEMS AND ARCHITECTURE

**HTTP://WWW.CATALOG.GATECH.EDU/COLLEGES/COC/UGRAD/COMSCI/THREAD  
S/DEGREQ/DEVICES-PLATFORMS.PHP**

REQUIREMENT	REQ HRS	COURSE(S)	NOTES
Wellness	2	<a href="#">HPS 1040</a>	
Core A - Essential Skills	3	<a href="#">ENGL 1101</a>	
	3	<a href="#">ENGL 1102</a>	
	4	<a href="#">MATH 1501</a>	
Core B - Institutional Options	3	<a href="#">CS 1301</a>	c
Core C - Humanities	6	<a href="#">Any HUM</a>	
Core D - Science, Math, & Technology	4	<a href="#">PHYS 2211</a>	a
	4	<a href="#">Lab Science</a>	a
	4	<a href="#">MATH 1502</a>	
Core E - Social Sciences	3	<a href="#">HIST 2111</a> or <a href="#">HIST 2112</a> or <a href="#">INTA 1200</a> or <a href="#">POL 1101</a> or <a href="#">PUBP 3000</a>	
	9	<a href="#">Any SS</a>	
Core F - Courses Related to Major	4	<a href="#">Lab Science</a>	a
	1	<a href="#">CS 1100</a>	
	3	<a href="#">CS 1331</a>	c
	3	<a href="#">CS 1332</a>	c
	3	<a href="#">CS 2050</a> or <a href="#">CS 2051</a>	c
	4	<a href="#">MATH 2605</a>	
Major Requirements	3	<a href="#">CS 2340</a>	c
	3	<a href="#">CS 4001</a> or <a href="#">CS 4002</a>	c
	3	<a href="#">CS 4980</a> or <a href="#">CS 4911</a>	c
Concentration	4	<a href="#">CS 2110</a>	c
	4	<a href="#">CS 2200</a>	c
	3	<a href="#">CS 3210</a>	c
	3	<del><a href="#">CS 3240</a></del>	c
	3	<a href="#">CS 3251</a>	c

	3	<a href="#">CS 3510</a> or <a href="#">CS 3511</a>	c
	2	<a href="#">ECE 2031</a>	c
	4	<a href="#">CS 3651</a> or <a href="#">ECE 4175</a>	c
	3	<a href="#">CS 3630</a> or <a href="#">CS 4261</a> or <a href="#">CS 4605</a>	c
	3	<a href="#">CS 3220</a> or <a href="#">CS 4210</a>	c
	3	<a href="#">CS 3300</a> or <a href="#">CS 4240</a>	c
	3	<a href="#">CS 4220</a> or <a href="#">CS4290</a>	c
<b>Other Required Courses</b>	3	<a href="#">LCC 3403</a>	
	3	<a href="#">MATH 3012</a>	
	3	<a href="#">MATH 3215</a> or <a href="#">MATH 3770</a> or <a href="#">CEE 3770</a> or <a href="#">ISYE 3770</a> or ( <a href="#">ISYE 2027</a> and <a href="#">ISYE 2028</a> )	
<b>Free Electives</b>	<del>13</del> Reduce free electives to 10 hours	Free Electives	
<b>TOTAL:</b>	126		

Pass-fail only allowed for Free Electives (max 6 hours), CS 1100, and CS 1171 (if required)

## NOTES

a = Two of three lab sciences MUST be a sequence.

c = C-minimum required

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**PROPOSED THREAD:** PEOPLE & SYSTEMS AND ARCHITECTURE

REQUIREMENT	REQ HRS	COURSE(S)	NOTES
Wellness	2	<a href="#">HPS 1040</a>	
Core A - Essential Skills	3	<a href="#">ENGL 1101</a>	
	3	<a href="#">ENGL 1102</a>	
	4	<a href="#">MATH 1501</a>	
Core B - Institutional Options	3	<a href="#">CS 1301</a>	c
Core C - Humanities	6	<a href="#">Any HUM</a>	
Core D - Science, Math, & Technology	4	<a href="#">PHYS 2211</a>	a
	4	<a href="#">Lab Science</a>	a
	4	<a href="#">MATH 1502</a>	
Core E - Social Sciences	3	<a href="#">HIST 2111</a> or <a href="#">HIST 2112</a> or <a href="#">INTA 1200</a> or <a href="#">POL 1101</a> or <a href="#">PUBP 3000</a>	
	3	<a href="#">PSYC 1101</a>	
	6	<a href="#">Any SS</a>	
Core F - Courses Related to Major	4	<a href="#">Lab Science</a>	a
	1	<a href="#">CS 1100</a>	
	3	<a href="#">CS 1331</a>	c
	3	<a href="#">CS 1332</a>	c
	3	<a href="#">CS 2050</a> or <a href="#">CS 2051</a>	c
	4	<a href="#">MATH 2605</a>	
Major Requirements	3	<a href="#">CS 2340</a>	c
	3	<a href="#">CS 4001</a> or <a href="#">CS 4002</a>	c
	3	<a href="#">CS 4980</a> or <a href="#">CS 4911</a>	c
Concentration	4	<a href="#">CS 2110</a>	c
	4	<a href="#">CS 2200</a>	c
	3	<a href="#">CS 3210</a>	c
	3	<del><a href="#">CS 3240</a></del>	e
	3	<a href="#">CS 3510</a> or <a href="#">CS 3511</a>	c
	4	<a href="#">PSYC 2015</a>	c

6	<a href="#">CS 3750</a> or <a href="#">CS 3790</a> or <a href="#">CS 4660</a>	c
3	<a href="#">PSYC 2210</a> or <a href="#">PSYC 2760</a> or <a href="#">PSYC 3040</a>	c
<del>3</del>	<del><a href="#">CS 3220</a> or <a href="#">CS 4290</a></del>	e
<del>3</del>	<del><a href="#">CS 3251</a> or <a href="#">CS 3300</a> or <a href="#">CS 4240</a></del>	e
3	<a href="#">CS 4460</a> or <a href="#">CS 4470</a> or <a href="#">CS 4605</a> or <a href="#">CS 4625</a>	c
3	CS 3220 or CS4210	c
3	CS 3300 or CS 4240	c
3	CS 4220 or CS 4290	c

Other Required Courses	3	<a href="#">LCC 3403</a>	
	3	<a href="#">MATH 3012</a>	
	3	<a href="#">MATH 3215</a> or <a href="#">MATH 3770</a> or <a href="#">CEE 3770</a> or <a href="#">ISYE 3770</a> or ( <a href="#">ISYE 2027</a> and <a href="#">ISYE 2028</a> )	
Free Electives	6	Free Electives	
<b>TOTAL:</b>	126		

Pass-fail only allowed for Free Electives (max 6 hours), CS 1100, and CS 1171 (if required)

## NOTES

a = Two of three lab sciences MUST be a sequence.

c = C-minimum required

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**PROPOSED THREAD:** THEORY & SYSTEMS AND ARCHITECTURE

REQUIREMENT	REQ HRS	COURSE(S)	NOTES
Wellness	2	<a href="#">HPS 1040</a>	
Core A - Essential Skills	3	<a href="#">ENGL 1101</a>	
	3	<a href="#">ENGL 1102</a>	
	4	<a href="#">MATH 1501</a>	
Core B - Institutional Options	3	<a href="#">CS 1301</a>	c
Core C - Humanities	6	<a href="#">Any HUM</a>	
Core D - Science, Math, & Technology	4	<a href="#">PHYS 2211</a>	a
	4	<a href="#">Lab Science</a>	a
	4	<a href="#">MATH 1502</a>	
Core E - Social Sciences	3	<a href="#">HIST 2111</a> or <a href="#">HIST 2112</a> or <a href="#">INTA 1200</a> or <a href="#">POL 1101</a> or <a href="#">PUBP 3000</a>	
	9	<a href="#">Any SS</a>	
Core F - Courses Related to Major	4	<a href="#">Lab Science</a>	a
	1	<a href="#">CS 1100</a>	
	3	<a href="#">CS 1331</a>	c
	3	<a href="#">CS 1332</a>	c
	3	<a href="#">CS 2050</a> or <a href="#">CS 2051</a>	c
	4	<a href="#">MATH 2605</a>	
Major Requirements	3	<a href="#">CS 2340</a>	c
	3	<a href="#">CS 4001</a> or <a href="#">CS 4002</a>	c
	3	<a href="#">CS 4980</a> or <a href="#">CS 4911</a>	c
Concentration	4	<a href="#">CS 2110</a>	c
	4	<a href="#">CS 2200</a>	c
	3	<a href="#">CS 3210</a>	c
	3	<del><a href="#">CS 3240</a></del>	e
	3	<a href="#">CS 3510</a> or <a href="#">CS 3511</a>	c
	3	<a href="#">CS 4510</a>	c
	3	<a href="#">CS 4540</a>	c



	3	<a href="#">MATH 2406</a>	c
	3	<del><a href="#">CS 3220</a></del> or <del><a href="#">CS 4290</a></del>	e
	3	<del><a href="#">CS 3251</a></del> or <del><a href="#">CS 3300</a></del> or <del><a href="#">CS 4240</a></del>	e
	3	<a href="#">MATH 4022</a> or <a href="#">MATH 4032</a> or <a href="#">MATH 4150</a>	c
	3	CS 3220 or CS4210	c
	3	CS 3300 or CS 4240	c
	3	CS 4220 or CS 4290	c
<b>Other Required Courses</b>	3	<a href="#">LCC 3403</a>	
	3	<a href="#">MATH 3012</a>	
	3	<a href="#">MATH 3215</a> or <a href="#">MATH 3770</a> or <a href="#">CEE 3770</a> or <a href="#">ISYE 3770</a> or ( <a href="#">ISYE 2027</a> and <a href="#">ISYE 2028</a> )	
<b>Free Electives</b>	10	Free Electives	
<b>TOTAL:</b>	126		

**Pass-fail only allowed for Free Electives (max 6 hours), CS 1100, and CS 1171 (if required)**

#### **NOTES**

**a** = Two of three lab sciences MUST be a sequence.

**c** = C-minimum required

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**PROPOSED THREAD:** MEDIA & SYSTEMS AND ARCHITECTURE

REQUIREMENT	REQ HRS	COURSE(S)	NOTES
Wellness	2	<a href="#">HPS 1040</a>	
Core A - Essential Skills	3	<a href="#">ENGL 1101</a>	
	3	<a href="#">ENGL 1102</a>	
	4	<a href="#">MATH 1501</a>	
Core B - Institutional Options	3	<a href="#">CS 1301</a> or <a href="#">CS 1315</a>	c
Core C - Humanities	6	<a href="#">Any HUM</a>	
Core D - Science, Math, & Technology	4	<a href="#">PHYS 2211</a>	a
	4	<a href="#">Lab Science</a>	a
	4	<a href="#">MATH 1502</a>	
Core E - Social Sciences	3	<a href="#">HIST 2111</a> or <a href="#">HIST 2112</a> or <a href="#">INTA 1200</a> or <a href="#">POL 1101</a> or <a href="#">PUBP 3000</a>	
	9	<a href="#">Any SS</a>	
Core F - Courses Related to Major	4	<a href="#">Lab Science</a>	a
	1	<a href="#">CS 1100</a>	
	3	<a href="#">CS 1331</a>	c
	3	<a href="#">CS 1332</a>	c
	3	<a href="#">CS 2050</a> or <a href="#">CS 2051</a>	c
	4	<a href="#">MATH 2605</a>	
Major Requirements	3	<a href="#">CS 2340</a>	c
	3	<a href="#">CS 4001</a> or <a href="#">CS 4002</a>	c
	3	<a href="#">CS 4980</a> or <a href="#">CS 4911</a>	c
Concentration	4	<a href="#">CS 2110</a>	c
	4	<a href="#">CS 2200</a>	c
	3	<a href="#">CS 3210</a>	c
	<del>3</del>	<del><a href="#">CS 3240</a></del>	e
	3	<a href="#">CS 3451</a>	c
	3	<a href="#">CS 3510</a> or <a href="#">CS 3511</a>	c
	6	<a href="#">CS 4455</a> or <a href="#">CS 4460</a> or <a href="#">CS 4464</a> or <a href="#">CS 4475</a> or <a href="#">CS</a>	c

[4480](#) or [CS 4496](#) or [CS 4590](#)

3 ~~[CS 3220](#) or [CS 4290](#)~~ e

3 ~~[CS 3251](#) or [CS 3300](#) or [CS 4240](#)~~ c

3 CS 3220 or CS4210 c

3 CS 3300 or CS 4240 c

3 CS 4220 or CS 4290 c

Other Required Courses	3	<a href="#">LCC 3403</a>	
	3	<a href="#">MATH 3012</a>	
	3	<a href="#">MATH 3215</a> or <a href="#">MATH 3770</a> or <a href="#">CEE 3770</a> or <a href="#">ISYE 3770</a> or ( <a href="#">ISYE 2027</a> and <a href="#">ISYE 2028</a> )	
Free Electives	13	Free Electives	
<b>TOTAL:</b>	126		

Pass-fail only allowed for Free Electives (max 6 hours), CS 1100, and CS 1171 (if required)

## NOTES

a = Two of three lab sciences MUST be a sequence.

c = C-minimum required

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**PROPOSED THREAD:** MODELING - SIMULATION & SYSTEMS AND ARCHITECTURE

REQUIREMENT	REQ HRS	COURSE(S)	NOTES
Wellness	2	<a href="#">HPS 1040</a>	
Core A - Essential Skills	3	<a href="#">ENGL 1101</a>	
	3	<a href="#">ENGL 1102</a>	
	4	<a href="#">MATH 1501</a>	
Core B - Institutional Options	3	<a href="#">CS 1301</a>	c
Core C - Humanities	6	<a href="#">Any HUM</a>	
Core D - Science, Math, & Technology	4	<a href="#">PHYS 2211</a>	a
	4	<a href="#">Lab Science</a>	a
	4	<a href="#">MATH 1502</a>	
Core E - Social Sciences	3	<a href="#">HIST 2111</a> or <a href="#">HIST 2112</a> or <a href="#">INTA 1200</a> or <a href="#">POL 1101</a> or <a href="#">PUBP 3000</a>	
	9	<a href="#">Any SS</a>	
Core F - Courses Related to Major	4	<a href="#">Lab Science</a>	a
	1	<a href="#">CS 1100</a>	
	3	<a href="#">CS 1331</a>	c
	3	<a href="#">CS 1332</a>	c
	3	<a href="#">CS 2050</a> or <a href="#">CS 2051</a>	c
	4	<a href="#">MATH 2605</a>	
	Major Requirements	3	<a href="#">CS 2340</a>
3		<a href="#">CS 4001</a> or <a href="#">CS 4002</a>	c
3		<a href="#">CS 4980</a> or <a href="#">CS 4911</a>	c
Concentration	1	<a href="#">CS 1171</a>	c
	4	<a href="#">CS 2110</a>	c
	4	<a href="#">CS 2200</a>	c
	3	<a href="#">CS 3210</a>	c
	<del>3</del>	<del><a href="#">CS 3240</a></del>	<del>e</del>
	3	<a href="#">CS 3510</a> or <a href="#">CS 3511</a>	c
	4	<a href="#">MATH 2403</a>	c

	6	<a href="#">CS 4140</a> or <a href="#">CS 4225</a> or <a href="#">CS 4335</a> or <a href="#">CS 4641</a> or <a href="#">CS 4642</a>	c
	3	<del><a href="#">CS 3220</a> or <a href="#">CS 4290</a></del>	e
	3	<del><a href="#">CS 3251</a> or <a href="#">CS 3300</a> or <a href="#">CS 4240</a></del>	e
	3	CS 3220 or CS4210	c
	3	CS 3300 or CS 4240	c
	3	CS 4220 or CS 4290	c
<b>Other Required Courses</b>	3	<a href="#">LCC 3403</a>	
	3	<a href="#">MATH 3012</a>	
	3	<a href="#">MATH 3215</a> or <a href="#">MATH 3770</a> or <a href="#">CEE 3770</a> or <a href="#">ISYE 3770</a> or ( <a href="#">ISYE 2027</a> and <a href="#">ISYE 2028</a> )	
<b>Free Electives</b>	11	Free Electives	
<b>TOTAL:</b>	126		

**Pass-fail only allowed for Free Electives (max 6 hours), CS 1100, and CS 1171 (if required)**

#### **NOTES**

a = Two of three lab sciences MUST be a sequence.

c = C-minimum required

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**PROPOSED THREAD:** INFORMATION INTERNETWORKS & SYSTEMS AND ARCHITECTURE

REQUIREMENT	REQ HRS	COURSE(S)	NOTES
Wellness	2	<a href="#">HPS 1040</a>	
Core A - Essential Skills	3	<a href="#">ENGL 1101</a>	
	3	<a href="#">ENGL 1102</a>	
	4	<a href="#">MATH 1501</a>	
Core B - Institutional Options	3	<a href="#">CS 1301</a>	c
Core C - Humanities	6	<a href="#">Any HUM</a>	
Core D - Science, Math, & Technology	4	<a href="#">PHYS 2211</a>	a
	4	<a href="#">Lab Science</a>	a
	4	<a href="#">MATH 1502</a>	
Core E - Social Sciences	3	<a href="#">HIST 2111</a> or <a href="#">HIST 2112</a> or <a href="#">INTA 1200</a> or <a href="#">POL 1101</a> or <a href="#">PUBP 3000</a>	
	9	<a href="#">Any SS</a>	
Core F - Courses Related to Major	4	<a href="#">Lab Science</a>	a
	1	<a href="#">CS 1100</a>	
	3	<a href="#">CS 1331</a>	c
	3	<a href="#">CS 1332</a>	c
	3	<a href="#">CS 2050</a> or <a href="#">CS 2051</a>	c
	4	<a href="#">MATH 2605</a>	
Major Requirements	3	<a href="#">CS 2340</a>	c
	3	<a href="#">CS 4001</a> or <a href="#">CS 4002</a>	c
	3	<a href="#">CS 4980</a> or <a href="#">CS 4911</a>	c
Concentration	4	<a href="#">CS 2110</a>	c
	4	<a href="#">CS 2200</a>	c
	3	<a href="#">CS 3210</a>	c
	3	<del><a href="#">CS 3240</a></del>	c
	3	<a href="#">CS 3510</a> or <a href="#">CS 3511</a>	c
	6	<a href="#">CS 3251</a> or <a href="#">CS 4235</a> or <a href="#">CS 4400</a>	c, d
	3	<a href="#">CS 4237</a> or <a href="#">CS 4251</a> or <a href="#">CS 4255</a> or <a href="#">CS 4261</a> or <a href="#">CS 4270</a> or <a href="#">CS</a>	c

		<a href="#">4365</a> or <a href="#">CS 4420</a> or <a href="#">CS 4440</a> or <a href="#">CS 4460</a>	
	3	<del>CS 3220 or CS 4290</del>	e
	3	<del>CS 3251 or CS 3300 or CS 4240</del>	e, d
	3	CS 3220 or CS4210	c
	3	CS 3300 or CS 4240	c
	3	CS 4220 or CS 4290	c
<b>Other Required Courses</b>	3	<a href="#">LCC 3403</a>	
	3	<a href="#">MATH 3012</a>	
	3	<a href="#">MATH 3215</a> or <a href="#">MATH 3770</a> or <a href="#">CEE 3770</a> or <a href="#">ISYE 3770</a> or <a href="#">(ISYE 2027 and ISYE 2028)</a>	
<b>Free Electives</b>	13	Free Electives	
<b>TOTAL:</b>	126		

Pass-fail only allowed for Free Electives (max 6 hours), CS 1100, and CS 1171 (if required)

## NOTES

a = Two of three lab sciences MUST be a sequence.

c = C-minimum required

~~d = If CS 3251 is successfully completed, both requirements are fulfilled, and an additional 3cr Thread Elective is required. Thread Electives must be chosen from the following list: CS 3220, CS 3300, CS 4210, CS 4220, CS 4233, CS 4235, CS 4237, CS 4240, CS 4251, CS 4255, CS 4261, CS 4270, CS 4290, CS 4365, CS 4392, CS 4400, CS 4420, CS 4440, CS 4460, CS 4560, CS 4675, CS 4685, CS 6241, or CS 6246~~

*\*NOTE TO REGISTRAR- Since CS 3251 is no longer in a pick under Systems and Architecture, the above exception is no longer applicable.*

**Minor Modification: Approved**

Minor in Computer Science

- Remove CS 1372 as a prerequisite option for the Devices, Information Internetworks, and Systems & Architecture tracks. All minor tracks will require CS 1331 as prerequisite.
- Under the Devices track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Devices Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Devices Thread course for CS 2110 and complete the minor with 16 hours instead of 17”.
- Under the Information Internetworks track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Information Internetworks Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Information Internetworks Thread course for CS 2110 and complete the minor with 16 hours instead of 17”.
- Under the Intelligence track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Intelligence Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Intelligence Thread course for CS 2110 and complete the minor with 15 hours instead of 16”.
- Under the Media track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Media Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Media Thread course for CS 2110/2261 and complete the minor with 18 hours instead of 19”.
- Under the Systems and Architecture track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Systems and Architecture Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Systems and Architecture Thread course for CS 2110 and complete the minor with 16 hours instead of 17”.
- Because of the changes to the new Systems & Arch Thread, the Systems and Arch minor will need to reflect the new “pick” names. Under the Systems and Architecture track remove “Required courses: CS 2110, CS 2200, CS 3210, one CS course from Platform Interfaces and one CS course from Computer Architectures” to be updated to “Required courses: CS 2110, CS 2200, CS 3210, one CS course from Systems & Architecture, and one CS course from Advanced Systems and Architecture.”



Reason for these changes: CS 1372 was originally allowed to substitute in the minor because it was a required course for ECE majors. CS 1372 is being removed because under ECE's new curriculum, it is no longer a required course for ECE students.

Because of the changes to the Systems & Architecture Thread, the Systems & Architecture track for the minor will need to change to reflect the names of two new "picks."

Approved Program of Study for Undergraduate Minors  
 Georgia Institute of Technology  
 Office of the Registrar  
 2012-2013  
Minor in Computer Science – Information Internetworks  
Track

Please type or print in ink:

Name (first/last):	GT Student ID Number:
GT Email Address:	Daytime Phone:
Major:	Anticipated Graduation Date:

**In addition to the guidelines listed below, you are responsible for reviewing and following the general guidelines for minors: <http://www.catalog.gatech.edu/academics/minorguide.php>**

The Computer Science – Information Internetworks track minor must comprise at least 17 semester hours of computer science coursework of which at least 9 hours must be at the 3000 level or higher. **Prerequisite for the minor is CS 1331 or CS 1372 (ECE majors) – prerequisite must be taken but not included in the required 17 hours.**

- A. Required courses: CS 2110, CS 2200, two CS courses from Introduction to Information Management, and one CS course from Advanced Information Management.
- B. ~~ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Information Internetworks Thread course for CS 2110.~~ **ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Information Internetworks Thread course for CS 2110 and complete the minor with 16 hours instead of 17.**
- C. No Special Problems or Internship coursework may be used towards the CS minor.
- D. All courses must be completed with a grade of C or better.
- E. Only CS courses are included in the minor.

It is the **major advisor's responsibility** to verify that students are not using any courses required by name and number for their major, that they are not using any core area A-E courses (including humanities and social sciences), and that they are not using any courses for more than one minor or certificate. Free electives and technical electives may be used towards minors.

List the courses completed for the requested minor:

Course and Section	Course Title	Credit Hours	Grade	Semester Completed
<b>Prerequisite: CS 1331 or 1372</b>		3		
CS 2110	Computer Organization and Programming	4		
CS 2200	Systems and Networks	4		
CS		3		
CS		3		
CS		3		

Student Signature:
Major School Signature:
Minor School Signature:

Approved Program of Study for Undergraduate Minors  
 Georgia Institute of Technology  
 Office of the Registrar  
 2012-2013  
Minor in Computer Science – Devices Track

Please type or print in ink:

Name (first/last):	GT Student ID Number:
GT Email Address:	Daytime Phone:
Major:	Anticipated Graduation Date:

**In addition to the guidelines listed below, you are responsible for reviewing and following the general guidelines for minors: <http://www.catalog.gatech.edu/academics/minorguide.php>**

The Computer Science –Devices track minor must comprise at least 17 semester hours of computer science coursework of which at least 9 hours must be at the 3000 level or higher. **Prerequisite for the minor is CS 1331 or CS 1372 (ECE majors) – prerequisite must be taken but not included in the required 17 hours.**

- A. Required courses: CS 2110, CS 2200, CS 3251, one CS course from Devices in the Real World, and CS 3651 or one CS 3000/4000 level course from one of the elective categories in the Devices Thread.
- B. ~~ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Devices Thread course for CS 2110.~~ **ECE students with credit for ECE 2035 and either ECE 2020 or ECE 2030 may substitute one CS 3000/4000 level Devices Thread course for CS 2110 and complete the minor with 16 hours instead of 17.**
- C. No Special Problems or Internship coursework may be used towards the CS minor.
- D. All courses must be completed with a grade of C or better.
- E. Only CS courses are included in the minor.

It is the **major advisor's responsibility** to verify that students are not using any courses required by name and number for their major, that they are not using any core area A-E courses (including humanities and social sciences), and that they are not using any courses for more than one minor or certificate. Free electives and technical electives may be used towards minors.

List the courses completed for the requested minor:

Course and Section	Course Title	Credit Hours	Grade	Semester Completed
<b>Prerequisite: CS 1331 or 1372</b>		3		
CS 2110	Computer Organization and Programming	4		
CS 2200	Systems and Networks	4		
CS 3251	Computer Networking I	3		
CS		3		
CS		3		

Student Signature:
Major School Signature:
Minor School Signature:

Approved Program of Study for Undergraduate Minors  
 Georgia Institute of Technology  
 Office of the Registrar  
 2012-2013  
Minor in Computer Science – Intelligence Track

Please type or print in ink:

Name (first/last):	GT Student ID Number:
GT Email Address:	Daytime Phone:
Major:	Anticipated Graduation Date:

**In addition to the guidelines listed below, you are responsible for reviewing and following the general guidelines for minors: <http://www.catalog.gatech.edu/academics/minorguide.php>**

The Computer Science – Intelligence track minor must comprise at least 16 semester hours of computer science coursework of which at least 9 hours must be at the 3000 level or higher. **Prerequisite for the minor is CS 1331—prerequisite must be taken but not included in the required 16 hours.**

- A. Required courses: CS 1332, CS 2110, CS 3600, one CS course from Embodied Intelligence, and one CS course from Approaches to Intelligence.
- B. ~~ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Intelligence Thread course for CS 2110.~~ ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Intelligence Thread course for CS 2110 and complete the minor with 15 hours instead of 16.
- C. No Special Problems or Internship coursework may be used towards the CS minor.
- D. All courses must be completed with a grade of C or better.
- E. Only CS courses are included in the minor.

It is the **major advisor's responsibility** to verify that students are not using any courses required by name and number for their major, that they are not using any core area A-E courses (including humanities and social sciences), and that they are not using any courses for more than one minor or certificate. Free electives and technical electives may be used towards minors.

List the courses completed for the requested minor:

Course and Section	Course Title	Credit Hours	Grade	Semester Completed
<b>Prerequisite: CS 1331</b>	Introduction to Object Oriented Programming	3		
CS 1332	Data Structures and Algorithms for Applications	3		
CS 2110	Computer Organization and Programming	4		
CS 3600	Introduction to Artificial Intelligence	3		
CS		3		
CS		3		

Student Signature:
Major School Signature:
Minor School Signature:

Approved Program of Study for Undergraduate Minors  
 Georgia Institute of Technology  
 Office of the Registrar  
 2012-2013  
Minor in Computer Science – Media Track

Please type or print in ink:

Name (first/last):	GT Student ID Number:
GT Email Address:	Daytime Phone:
Major:	Anticipated Graduation Date:

**In addition to the guidelines listed below, you are responsible for reviewing and following the general guidelines for minors: <http://www.catalog.gatech.edu/academics/minorguide.php>**

The Computer Science – Media track minor must comprise at least 19 semester hours of computer science coursework of which at least 9 hours must be at the 3000 level or higher. **Prerequisite for the minor is CS 1331—prerequisite must be taken but not included in the required 19 hours.**

- A. Required courses: CS 1332, CS 2110 or 2261, CS 2340, CS 3451, and two CS courses from Media Technologies.
- B. ~~ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Media Thread course for CS 2110.~~ ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Media Thread course for CS 2110/2261 and complete the minor with 18 hours instead of 19.
- C. No Special Problems or Internship coursework may be used towards the CS minor.
- D. All courses must be completed with a grade of C or better.
- E. Only CS courses are included in the minor.

It is the **major advisor's responsibility** to verify that students are not using any courses required by name and number for their major, that they are not using any core area A-E courses (including humanities and social sciences), and that they are not using any courses for more than one minor or certificate. Free electives and technical electives may be used towards minors.

List the courses completed for the requested minor:

Course and Section	Course Title	Credit Hours	Grade	Semester Completed
<b>Prerequisite: CS 1331</b>	Introduction to Object Oriented Programming	3		
CS 1332	Data Structures and Algorithms for Applications	3		
CS 2110 or 2261		4		
CS 2340	Objects and Design	3		
CS 3451	Computer Graphics	3		
CS		3		
CS		3		

Student Signature:
Major School Signature:
Minor School Signature:

Approved Program of Study for Undergraduate Minors  
 Georgia Institute of Technology  
 Office of the Registrar  
 2012-2013  
Minor in Computer Science – Systems and Architecture  
Track

Please type or print in ink:

Name (first/last):	GT Student ID Number:
GT Email Address:	Daytime Phone:
Major:	Anticipated Graduation Date:

**In addition to the guidelines listed below, you are responsible for reviewing and following the general guidelines for minors: <http://www.catalog.gatech.edu/academics/minorguide.php>**

The Computer Science – Systems and Architecture track minor must comprise at least 17 semester hours of computer science coursework of which at least 9 hours must be at the 3000 level or higher. **Prerequisite for the minor is CS 1331 or CS 1372 (ECE majors) – prerequisite must be taken but not included in the required 17 hours.**

- A. Required courses: CS 2110, CS 2200, CS 3210, ~~one CS course from Platform Interfaces, and one CS course from Computer Architectures.~~ **One CS course from Systems & Architecture and one CS course from Advanced Systems & Architecture.**
- B. ~~ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Systems and Architecture Thread course for CS 2110.~~ **ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Systems and Architecture Thread course for CS 2110 and complete the minor with 16 hours instead of 17.**
- C. No Special Problems or Internship coursework may be used towards the CS minor.
- D. All courses must be completed with a grade of C or better.
- E. Only CS courses are included in the minor.

It is the **major advisor's responsibility** to verify that students are not using any courses required by name and number for their major, that they are not using any core area A-E courses (including humanities and social sciences), and that they are not using any courses for more than one minor or certificate. Free electives and technical electives may be used towards minors.

List the courses completed for the requested minor:

Course and Section	Course Title	Credit Hours	Grade	Semester Completed
<b>Prerequisite: CS 1331 or 1372</b>		3		
CS 2110	Computer Organization and Programming	4		
CS 2200	Systems and Networks	4		
CS 3210	Design of Operating Systems	3		
CS		3		
CS		3		

Student Signature:
Major School Signature:
Minor School Signature:

**Prerequisite Modifications: Acknowledged**

Because of the sun-setting of CS 3240, the prerequisites for two CS courses need to be modified. COC requests the removal of the prereq CS 3240 for both CS 4240-Compilers and Interpreters and CS 4392-Programming Languages; the material needed is now covered in CS 2340-Objects and Design. Thus CS 2340 should be added as the new prereq for CS 4240 and CS 4392.

Old Prerequisites

CS 4240- Compilers and Interpreters, prereq is CS 3240

CS 4392-Programining Languages, prereq is CS 3240

NEW Prerequisites

CS 4240- Compilers and Interpreters, prereq is CS 2340

CS 4392-Programining Languages, prereq is CS 2340

2. A motion was made to **approve** a request from the School of Mechanical Engineering for a Degree Modification. The motion was seconded and approved.

**Degree Modification: Approved**

Bachelor of Science in Mechanical Engineering  
(concentration in Nuclear Energy)

We request the establishment of a new Concentration Area in Nuclear Energy. ME students will now have 6 concentration areas to choose from: Automation and Robotics, Thermal, Fluid, and Energy Systems, Mechanics of Materials, Manufacturing, Micro- and Nanoengineering, and Nuclear Energy.

## NEW CONCENTRATION PROPOSAL

Complete all of the required classes and the correct number of elective classes in the table listed below. The classes required for the concentration will satisfy the Design Elective, an ME Elective, and 9 hours free electives.

Course Number and Name	Credit Hours	Lab <sup>3</sup>	Pre-Requisites	ME Elective	Projected Offering (Fall, Spring or Summer) <sup>1</sup>		
					Fall	Spr	Sum
<b>Required Classes (NRE)</b>		6					
NRE 3301 Radiation Physics	3		Math 1502 Phys 2211		Y	Y	
NRE 3208 Nuclear Reactor Physics I	3		NRE 3301 Math 2403			Y	
<b>Elective Classes (Choose 2, at least one must be an ME class)</b>		6					
<b>Fusion Systems</b>							
NRE 4610 Intro. to Plasma Phys. & Fusion	3		Senior Standing		Y		
ME/NRE 4803 Nuclear Reactor Materials	3		MSE 2001	Y	Y		
ECE 3072 Energy Systems	3		ECE 3710		Y	Y	
ECE 3025 Electromagnetics	3						
<b>Power Systems</b>							
NRE 4214 Reactor Engineering	3		ME3322, ME 3340, ME 3345, NRE 3208		Y		
ME 4340 Applied Fluid Mechanics	3		ME 3345	Y		Y	
ECE 3072 Energy Systems	3		ECE 3710		Y	Y	
<b>Nuclear Reactor Materials</b>							
ME/NRE 4803 Nuclear Reactor Materials	3		MSE 2001	Y	Y		
ME 4214 Mechanical Behavior of Materials	3		COE 3001			Y	
MSE 4010 Environmental Degradation	3		MSE 2001				
<b>Required Classes (ME) Pick one of two below</b>		3					
ME 4315 Energy Systems Analysis and Design	3		ME 2110, ME 3345		Y	Y	
ME 3180 Machine Design	3		ME 2110 COE 3001		Y	Y	Y

**Notes** This chart is a projected schedule of class offerings and may change at any time. Students should check OSCAR for exact class offerings during each semester. This table should only be used as a guide.



3. A motion was made to **approve** a request from the College of Engineering to acknowledge Prerequisite Modifications. The motion was approved and the change was acknowledged without concern.

**Prerequisite Modifications: Acknowledged**

COE 2001:

- Currently they are (Math 1502 or Math 15X2) and PHYS 2211.
- We would like to change them to (Math 1502 or Math 15X2 or **Math 1512**) and (PHYS 2211 or **PHYS 2231**).

COE 3001: \* indicates a pre-req with concurrency

- Currently they are Math 2403\* and COE 2001.
- We would like to change them to (Math 2403\* or **Math 24X3 or Math 2413\***) and COE 2001.

4. A motion was made to **approve** a request from the Provost Subcommittee for new courses. The motion was seconded and approved.

**New Courses: Approved**

GT 1201: Exploring Grand Challenges	3-0-3
GT 2201: Grand Challenges Research	0-3-1
GT 2202: Grand Challenges Research	0-6-2

The set of courses is associated with the Grand Challenges Living Learning Community.

Adjourned,

Reta Pikowsky  
Registrar