

**B.S. in Computer Science Requirements for Students Starting  
Fall 2002 thru Spring 2004**

Student \_\_\_\_\_ ID \_\_\_\_\_  Full-time /  Part-time

**Mathematics**

Course	Hrs.	Semester
MATH 151	5	
MATH 152	5	
MATH 251	4	
MATH 474	3	
MATH		
<b>Total hours (20 hours minimum)</b>		

**Science**

Course	Hrs.	Semester
PHYS 123	4	
PHYS 221	4	
<b>Total hours (14 hours minimum)</b>		

**Humanities**

Course	Hrs.	Semester
HUM 100-level (C)	3	
CS485 or PHIL374 (C)	3	
(C)	3	
(C)	3	
	3	
<b>Total hours (15 hours minimum)</b>		

At least 6 hours (excluding CS 485) must be at the 300-level or above.

**Social Sciences**

Course	Hrs.	Semester
ECON (C)	3	
(C)	3	
(C)	3	
	3	
<b>Total hours (12 hours minimum)</b>		

At least 6 hours must be in one field and at least 3 hours in another field. At least 6 hours must be at the 300-level or above.

**Writing/Speaking**

Course	Hrs.	Semester
COM421/428 (C)	3	
<b>Total hours (3 hours minimum)</b>		

**Computer Science**

Course	Hrs.	Semester
CS 100 (C)	2	
CS 105	2	
CS 106	2	
CS330 or MATH230	3	
CS 331	3	
CS 350 (C)	3	
CS 351	3	
CS 430 (C)	3	
CS 440	3	
CS 450	3	
CS 487 (C)	3	
(C)	3	
	3	
	3	
	3	
	3	
<b>Total hours (45 hours minimum)</b>		

**Interprofessional Projects**

Course	Hrs.	Semester
IPOxxx (C)	3	
IPOxxx (C)	3	
<b>Total hours (6 hours minimum)</b>		

**Free Electives**

Course	Hrs.	Semester
	3	
	3	
	3	
	3	
<b>Total hours</b>		

**Minor field** \_\_\_\_\_

A minor is *optional*. If a minor is selected, it must include a minimum of 15 hours. Place an **M** next to the courses used toward the minor.

Communications General Education Requirement - Minimum 42 hours of **C** courses, at least 15 in major courses and at least 15 in non-major courses. Place a **C** next to the courses used for Comm. Gen. Ed. Req.

Total hours (127 hours minimum) \_\_\_\_\_ Hours at the 300-level or above (60 hrs. min.) \_\_\_\_\_

Advisor \_\_\_\_\_ Date \_\_\_\_\_

## Notes on the B.S. in Computer Science for Students Starting **Fall 2002 thru Current**

**General note:** Courses marked in the IIT Bulletin as not applying to graduation for degrees in "engineering and the physical sciences" may not be used toward the B.S. in Computer Science - this includes their use as free electives.

**Computer science electives:** Any computer science course at the 300-level or higher (including graduate CS courses) except CS401, CS402, CS403 and CS406 may be used as a computer science elective. To fulfill the university Communications General Education requirement, at least one CS elective must be chosen from CS425, CS447, CS460, CS470, CS471, CS495-Info. Retrieval. ECE 218 (Digital Systems) and ECE441 (Microcomputers) may also be used as computer science electives. No courses from any other programs can be used as CS electives (for example, ICOM courses cannot be used as CS electives).

**Mathematics electives:** MATH221 and MATH230 cannot be taken as mathematics electives. Students usually take MATH252 (if they are planning on taking ECE211/212 as science engineering electives) or any 300-level math course or MATH454, MATH471, MATH472

**Science electives:** Science electives may be chosen from the natural sciences (biology (without lab ok), chemistry (without lab ok), and physics), MS201-Materials Science, or psychology (limited to courses marked with an N in the IIT Bulletin). At least one course must be in a field other than physics.

**Humanities electives:** (English, History, Philosophy) Humanities course work (courses marked with an H in the IIT Bulletin) must include at least 6 hours at the 300-level or above (excluding CS 485). Note that foreign language courses at the 200-level may be used to satisfy the 300-level requirement. This substitution requires written approval from the student's faculty advisor. In Fall 2001, almost all courses which have been heretofore designated as English (ENGL in the catalog) are now going to be designated EITHER as Literature (LIT) or as Communication (COM) courses. All LIT and some COM courses carry the (H); and all LIT and all COM courses carry the (C).

**Social sciences electives:** (Economics, Political Science, Sociology, Psychology) Social sciences course work (courses marked with an S in the IIT Bulletin) must include at least 3 hours of economics. At least 6 hours of social sciences course work must be taken in one field and at least 3 hours in another field. At least 6 hours must be taken at the 300-level or above.

**Writing/Speaking:** COM421-Technical Writing and COM428-Verbal and Visual Communications are currently offered in alternating semesters, and one of these must be taken before CS485-Computers in Society.

**IPROs:** We urge students to take at least one non-CS specific IPRO. One of the two required Inter-Professional Projects may be replaced for ROTC students (replaced with ROTC junior and senior required courses). Both of the two required Inter-Professional Projects might be replaced for full-time working students who can document interdisciplinary project work (replaced with CS elective and free elective). Co-Op cannot be used. A petition must be filed through the Undergraduate Dean.

**Minor:** (Optional) A minor may be chosen from the specialized minors listed in the IIT Bulletin or may be formed from 15 hours of course work in one department. The latter option requires written approval from both the student's faculty advisor and the minor department.

**ROTC programs:** ROTC programs are considered to be minors and satisfy the requirements for minors listed above.

**Graduate and short courses:** Undergraduates may enroll in a 500-level graduate course with permission from the student's faculty advisor. Undergraduates cannot enroll in short courses.

**Communications General Education Requirement:** Minimum 42 hours of "C" courses as marked in IIT Bulletin of Undergraduate Programs, at least 15 hours in major courses (chosen from CS100, CS350, CS425, CS430, CS447, CS460, CS470, CS471, CS485, CS487, CS495-Info. Retrieval) and at least 15 hours in non-major courses. Almost all Humanities and Social Science electives will count towards the communications requirement.

**B.S. in Computer Science Sample Curriculum by Semester for Students Starting  
Fall 2002 thru Current**

<b>First semester</b>	
CS 100	2
CS 105	2
MATH 151	5
HUM 100-level	3
Social sci. elective	3
	15

<b>Second semester</b>	
CS 106	2
MATH 152	5
PHYS 123	4
Humanities elective	3
Social sci. elective	3
	17

<b>Third semester</b>	
CS 330 or MATH230	3
CS 331	3
MATH 251	4
PHYS 221	4
Humanities elective	3
	17

<b>Fourth semester</b>	
CS 350	3
CS 430	3
Math elective	3
Science elective	3
Social sci. elective	3
	15

<b>Fifth semester</b>	
CS 351	3
CS elective	3
Science elective	3
Humanities elective	3
Free elective	3
	15

<b>Sixth semester</b>	
CS 440	3
CS elective	3
MATH 474	3
I PRO I	3
Free elective	3
	15

<b>Seventh semester</b>	
I PRO II	3
CS 450	3
CS 487	3
COM421 or COM428	3
Social sci. elective	3
Free elective	3
	18

<b>Eighth semester</b>	
CS elective	3
CS elective	3
CS elective	3
PHIL 374 or CS 485	3
Free elective	3
	15

<b>Total credit hours</b>	<b>127</b>
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