

# STANFORD UNIVERSITY SCHOOL OF ENGINEERING

## 2001-02 Sample Program Sheet Computer Systems Engineering

Name: \_\_\_\_\_  
Local Address: \_\_\_\_\_  
ID #: \_\_\_\_\_

Local Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Date B.S. expected: \_\_\_\_\_

Dept	No	Title	Total Units	Grade	if Trans- fer	Transfer Credit		
						Course #/School	Approval	
							Date	Initial

*Mathematics (23 units minimum required)*

Math	41	Calculus	5					
Math	42	Calculus	5					
Math	51	Calculus	5					
Math	52 or 53	Calculus	5					
Math		Linear Algebra (103 or 113) see note 1	3					
<i>Mathematics Total</i>			23	<i>(23 units minimum)</i>				

*Science (12 units minimum required)*

Phys	51	Light and Heat	4					
Phys	53	Mechanics	4					
Phys	55	Electricity and Magnetism	4					
<i>Science Total</i>			12	<i>(12 units minimum)</i>				

*Engineering Fundamentals (13 units minimum required)*

CS	106	Programming Abstractions (B or X)	5					
Engr	40	Introductory Electronics	5					
		Elective (see note 2)						
<i>Fundamentals Total</i>			10	<i>(13 units minimum)</i>				

*Technology in Society (1 course required, 3-5 units, see list in front of Handbook))*

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Totals This Page (51-53)

45

**NOTES:**

- Completion of Math 52 AND 53 will satisfy the Math 103/113 requirement.
- One course required, 3 to 5 units. See list of "Courses Approved for the Engineering Fundamentals Requirement" in front of Handbook.
- Students who take CS103A/B must complete two electives; students who opt for CS106X must complete three. The list of approved electives is reviewed annually by the CS Undergraduate Program Committee. The current list consists of CS110, CS121 or 221, CS137, CS140, CS143, CS145, CS147, CS148 or 248, CS154, CS157, CS161, CS205, CS206, CS222, CS223A, CS223B, CS224M, CS224N, CS225A, CS225B, CS226, CS227, CS228, CS229, CS240, CS241, CS242, CS243, CS244A, CS245, CS247A, CS247B, CS249, CS255, CS256, CS257, CS258, CS261, CS270A, CS270B, CS272, CS274, EE212, EE216, EE247, EE264, EE278, EE282.

## Computer Systems Engineering Sample Program Sheet

Dept	No	Title	Total Units	Grade	if Trans-fer?	Transfer Credit		
						Course #/School	Approval	
							Date	Initial

### Computer Systems Engineering Depth (53 units minimum required)

CS	103	Discrete Structures (X, or A and B)	4 or 6					
CS	107	Programming Paradigms	5					
CS	108	Object-Oriented Systems Design	4					
CS		Compilers (143) or OpSys (140)	4					
EE	101	Introduction to Circuits	3					
EE	111	Electronics I	4					
EE	112	Electronics II	4					
EE	121	Digital Design Laboratory	4					
EE	182	Computer Organization	4					
EE	183	Advanced Logic Laboratory	3					
EE	271	Intro to VLSI Systems	3					
			38	(44 units minimum)				

### Restricted Electives (see note 3 on previous page)

			0	(6 units minimum)				

### Project (1 course)

CS		At least 3 units of 191, 191W* or 194*						
			0	(3 units minimum)				

Totals from this page	38
Totals from previous page (49-51)	45
Program totals (104-106)	83

### Departmental Approval

Printed Name: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Date: \_\_\_\_\_

### School of Engineering Approval

Printed Name: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Date: \_\_\_\_\_

\* Fulfills "Writing in the Major" requirement

### GENERAL NOTES

- CS191, 194, or 201 will fulfill the "Writing in the Major" requirement for Freshmen and transfer students entering Fall 1996 or later.
- This form is available as an Excel file at [ughb.stanford.edu](http://ughb.stanford.edu). The printed form must be signed by the advisor and, if required, by the departmental representative. Changes must be initialed in ink.
- Transfer credits in Math, Science, Fundamentals, and TIS must be approved by the Senior Associate Dean for Student Affairs in Terman 201. Transfer credits in Computer Science Depth must be approved by the departmental representative.
- Courses may be listed under only one category.
- All courses listed on this form must be taken for a letter grade if offered by the instructor.
- Minimum Grade Point Average (GPA) for all courses in Engineering Fundamentals and Computer Science Depth (combined) is 2.0.