STANFORD UNIVERSITY
SCHOOL OF ENGINEERING

2006-07
Computer Systems Engineering
Robotics and Mechatronics Specialization

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)

Dept	No	Title	Total Units	Grade	√ if Transfer	Course #/School	Date	Initial
MATH	41	Calculus	5					
MATH	42	Calculus	5					
MATH	51	Calculus	5					
MATH	52 *or* 53	Calculus	5					
STAT	116	Probability(or MS&E 120 or CME 106)	3 to 5					
		Mathematics Total		*(23 units minimum)*				

Science (12 units minimum required)

Dept	No	Title	Total Units	Grade	√ if Transfer	Course #/School	Date	Initial
PHYSICS	41	Mechanics	4					
PHYSICS	43	Electricity and Magnetism	4					
PHYSICS	45	Light and Heat	4					
		Science Total		*(12 units minimum)*				

Engineering Fundamentals (13 units minimum required)

Dept	No	Title	Total Units	Grade	√ if Transfer	Course #/School	Date	Initial
CS	106	Programming Abstract (A and B, or X)	5					
ENGR	40	Introductory Electronics	5					
		Elective *(see note 1)*						
		Fundamentals Total		*(13 units minimum)*				

Technology in Society (1 course required, 3-5 units, see list in the School of Engineering Undergraduate Handbook)

Totals This Page

NOTES:

1 One course required, 3 to 5 units. See Engineering Fundamentals list in the SoE Undergraduate Handbook.

2 Independent study projects (CS191 or 191W) require faculty sponsorship and must be approved, in advance, by the advisor, faculty sponsor, and the CSE program advisor (Bob Plummer or Patrick Young). A signed approval form, along with a brief description of the proposed project, should be filed with the department representative in Gates room 182 the quarter before work on the project is begun.

3 Students opting to take CS103X instead of CS103A and B must complete the higher number of courses.

Computer Systems Engineering

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

Computer Systems Engineering Depth (53 units minimum required)

Core(32 units minimum)

Dept	No	Title	Total Units	Grade	√ if Trans-fer?	Course #/School	Date	Initial
CS	103	Discrete Structures (X, or A and B)	4 or 6					
CS	107	Programming Paradigms	5					
CS	108	Object-Oriented Systems Design	4					
EE	102A	Signals and Systems I	4					
EE	102B	Signals and Systems II	4					
EE	108A	Digital Systems I	4					
EE	108B	Digital Systems II	3 or 4					
Senior Project		CS191, 191W, 194, 294, or 294W *(see note 2 on previous page)*	3					

Computer Systems Engineering Core Total [   ] *(32 units minimum)*

Depth (19 units minimum)

Dept	No	Title	Total Units	Grade	√ if Trans-fer?	Course #/School	Date	Initial
CS	205	Mathematical Methods	3					
CS	223A	Introduction to Robotics	3					
ME	210	Intro to Mechatronics (or EE118)	4					
ENGR	105	Feedback Control Design	3					
Plus two to three of the following (see note 3 on previous page)								
CS	223B	Introduction to Computer Vision	3					
CS	225A	Experimental Robotics	3					
CS	225B	Robot Programming Laboratory	4					
ENGR	205	Intro to Control Design Techniques	3					
ENGR	206	Control System Design	4					
ENGR	207A	Modern Control Design I	3					
ENGR	207B	Modern Control Design II	3					

Computer Systems Engineering Depth Total [   ] *(19 units minimum)*

Totals from this page [   ]
Totals from previous page [   ]
Program totals [   ]

Departmental Approval

Printed Name: _____   Date: _____

Signature: _____

School of Engineering Approval

Printed Name: _____   Date: _____

Signature: _____

GENERAL NOTES

- CS191W, 194, 201 or 294W 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. The printed form must be signed by the department representative in Gates room 182. 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 Systems Engineering Core and Depth must be approved by the Computer Science undergraduate program representative. A maximum of three (3) Computer Systems Engineering Core and Depth courses may be covered with transfer credit.
- 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 Systems Engineering Core and Depth (combined) is 2.0.

REV: 9/06