

Electrical & Computer Engineering Degree Progress Check Sheet 2013

| | |
|-------|-------------|
| Name: | Student ID: |
|-------|-------------|

Engineering Foundation (39 credits)

| Nbr | Course Name | Prerequisite | Corequisite | Hrs | Grade | Note: |
|-----------|---|--------------|-------------|-----|-------|-------|
| Vv156/186 | Applied Calculus II / Honors Mathematics II | — | — | 4 | | |
| Vv255/285 | Applied Calculus III / Honors Mathematics III | Vv156/186 | — | 4 | | |
| Vv256/286 | Applied Calculus IV / Honors Mathematics IV | Vv255/285 | — | 4 | | |
| Ve203 | Discrete Mathematics | Vv156/186 | — | 4 | | |
| Vg100 | Intro to Engr. | — | — | 4 | | |
| Vg101 | Intro to Comp. | — | — | 4 | | |
| Vc210 | Chemistry | — | — | 4 | | |
| Vc211 | Chemistry Lab | — | Vc210 | 1 | | |
| Vp140/160 | Physics I | — | — | 4 | | |
| Vp240/260 | Physics II | Vp140/160 | — | 4 | | |
| Vp141 | Physics Lab I | — | Vp140 | 1 | | |
| Vp241 | Physics Lab II | — | Vp240/141 | 1 | | |

Intellectual Breadth (16 credits)¹

| Nbr | Course Name | Prerequisite | Corequisite | Hrs | Grade | Note: |
|-------|--------------------------|--------------|-------------|-----|-------|-------|
| Vg496 | Ethics & Professionalism | Vg100 | — | 2 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Program Subject (43 credits)

| Nbr | Course Name | Prerequisite | Corequisite | Hrs | Grade | Note: |
|-----------|------------------------------|-----------------------------|--------------|-----|-------|-------|
| Ve215 | Intro to Circuits | Vv156/186, Vg101 | Vp240/260 | 4 | | |
| Ve216 | Signal and Systems I | Ve215, Vv256/286 | or Vv256/286 | 4 | | |
| Ve280 | Prog. & Data Structure | Vv156/186, Vg101 | — | 4 | | |
| Ve401 | Probabilistic Meth. in Engr. | Vv255/285, Vp240/260, Ve215 | — | 4 | | |
| Ve230 | Electromagnetics I | Vg101 or equivalent | — | 4 | | |
| Ve270 | Intro to Logic Design | Ve216 | — | 4 | | |
| Ve311 | Electronic Circuits | Ve215, Vp240/260 | — | 4 | | |
| Ve320 | Semiconductor Dev. Theo. | Ve270, Ve280 | — | 4 | | |
| Ve370 | Intro to Comp. Org. | Vg100 | — | 4 | | |
| Ve300 | Technical Communication | Vv156/186, | — | 1 | | |
| Ve450/MDE | Capstone Design | Ve216, Ve280, Ve311 | Ve496 | 4 | | |
| Ve496 | Technical Communication | Ve300 | Ve450 | 2 | | |

| Core Elective (0 credits for DD, 4 for others) ² | | | | | | |
|---|---|--------------|-------------|-----|-------|-------|
| Nbr | Course Name | Prerequisite | Corequisite | Hrs | Grade | Note: |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Upper Level Technical Elective (7 credits) ³ | | | | | | |
| Nbr | Course Name | Prerequisite | Corequisite | Hrs | Grade | Note: |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Flexible Technical Elective (16 credits for DD, 12 for others) ⁴ | | | | | | |
| Nbr | Course Name | Prerequisite | Corequisite | Hrs | Grade | Note: |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| General Elective (7 credits) ⁵ | | | | | | |
| Nbr | Course Name | Prerequisite | Corequisite | Hrs | Grade | Note: |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Required by MoE and SJTU (22 credits) | | | | | | |
| Nbr | Course Name | Prerequisite | Corequisite | Hrs | Grade | Note: |
| Vy100 | Integrated English | | | 4 | | |
| Vy200 | English Writing | | | 4 | | |
| TH009 | Circumstance and Policy 1 ⁶ | | | 0 | | |
| TH009 | Circumstance and Policy 2 ⁶ | | | 0 | | |
| TH009 | Circumstance and Policy 3 ⁶ | | | 0 | | |
| TH009 | Circumstance and Policy 4 ⁶ | | | 0 | | |
| TH021 | Modern Chinese History ⁶ | | | 2 | | |
| TH000 | Morals and Ethics and Law ⁶ | | | 2 | | |
| TH004 | Military Theory ⁶ | | | 1 | | |
| TH007 | Marxism Basic Theory ⁶ | | | 2 | | |
| TH012 | Mao Zedong's Thoughts ⁶ | | | 3 | | |
| PE001 | Physical Education I ⁶ | | | 1 | | |
| PE002 | Physical Education II ⁶ | | | 1 | | |
| PE003 | Physical Education III ⁶ | | | 1 | | |
| PE004 | Physical Education IV ⁶ | | | 1 | | |
| XP000 | General Education Practice ⁶ | | | 1 | | |

| |
|---|
| <p>1. This category requires:</p> <ul style="list-style-type: none"> • 2 credits of Vg496 Professional Ethics, and • 14 credits of courses in humanities, social sciences, professional development, and natural sciences. <p>Courses that may satisfy this category of requirement:</p> <ul style="list-style-type: none"> - All VR, VX, VW, VF, and VB courses are acceptable; - All VZ courses are acceptable only for international students; - All VY courses except VY100 and VY200 are acceptable; - UM courses that can be used to satisfy the Intellectual Breadth requirements at CoE are acceptable; - SJTU courses taught in English are acceptable with approval of this committee. |
| <p>2. A minimum of 4 credits from one of the following categories:</p> <ul style="list-style-type: none"> • Circuits: Ve312 • Computers: Ve281, Ve373 • Electromagnetics/Optics: Ve330, Ve334 • Signals and systems: Ve353, Ve451, Ve455, Ve460 <p>Additional courses maybe acceptable, but must be approved by the ECE Program Advisor.</p> <p>Any qualified credits in excess of 4 may flow into Upper Level Technical Elective, Flexible Technical Elective, or General Elective categories.</p> <p>Students in the UM-JI Dual-Degree program are not subject to the requirement of this category.</p> |
| <p>3. • ECE courses at the 300-level or higher, excluding Ve300, 496, 497, 498, and Ve499</p> <ul style="list-style-type: none"> • At least one course must be at 400-level or higher • Current List: Ve312, 330, 373, 420, 434, 451, 455, 460, 461, 470, 477, 478, 482, 487, 489, 501, 520, 530, 554, and Vm564. <p>Additional courses maybe acceptable, but must be approved by the ECE Program Advisor.</p> <p>Any qualified credits in excess of 7 may flow into Flexible Technical Elective or General Elective categories.</p> |
| <p>4. The flexible technical elective requirement may be fulfilled by taking 300-level or higher courses in ECE or in other engineering, biology, chemistry, mathematics, and physics fields.</p> <p>Up to 6 credits of courses taken from other engineering or science departments of SJTU may be counted in this category but must be 300-level or higher. These courses must be approved by the ECE Program Advisor.</p> <p>Any credits in excess of 12 may be applied to the General Elective category.</p> |
| <p>5. Fulfilled by taking any course, subject to the upper limit of 4 credits of research work such as PRP, IAP, and independent study.</p> |
| <p>6. International students are exempted from these requirements.</p> |
| <p>7. For DD program participants: To obtain both Bachelor's degrees, a student must complete the requirements of each of the degree programs. For the second degree, a student must complete at least a minimum of 14 credit hours in pertinent technical subjects in addition to the credits required by the first degree. The JI keeps a course list towards the 14 extra credits.</p> |
| <p>8. The student must accumulate a final GPA of 2.0 or more for all credit hours taken while enrolled in SJTU.</p> |