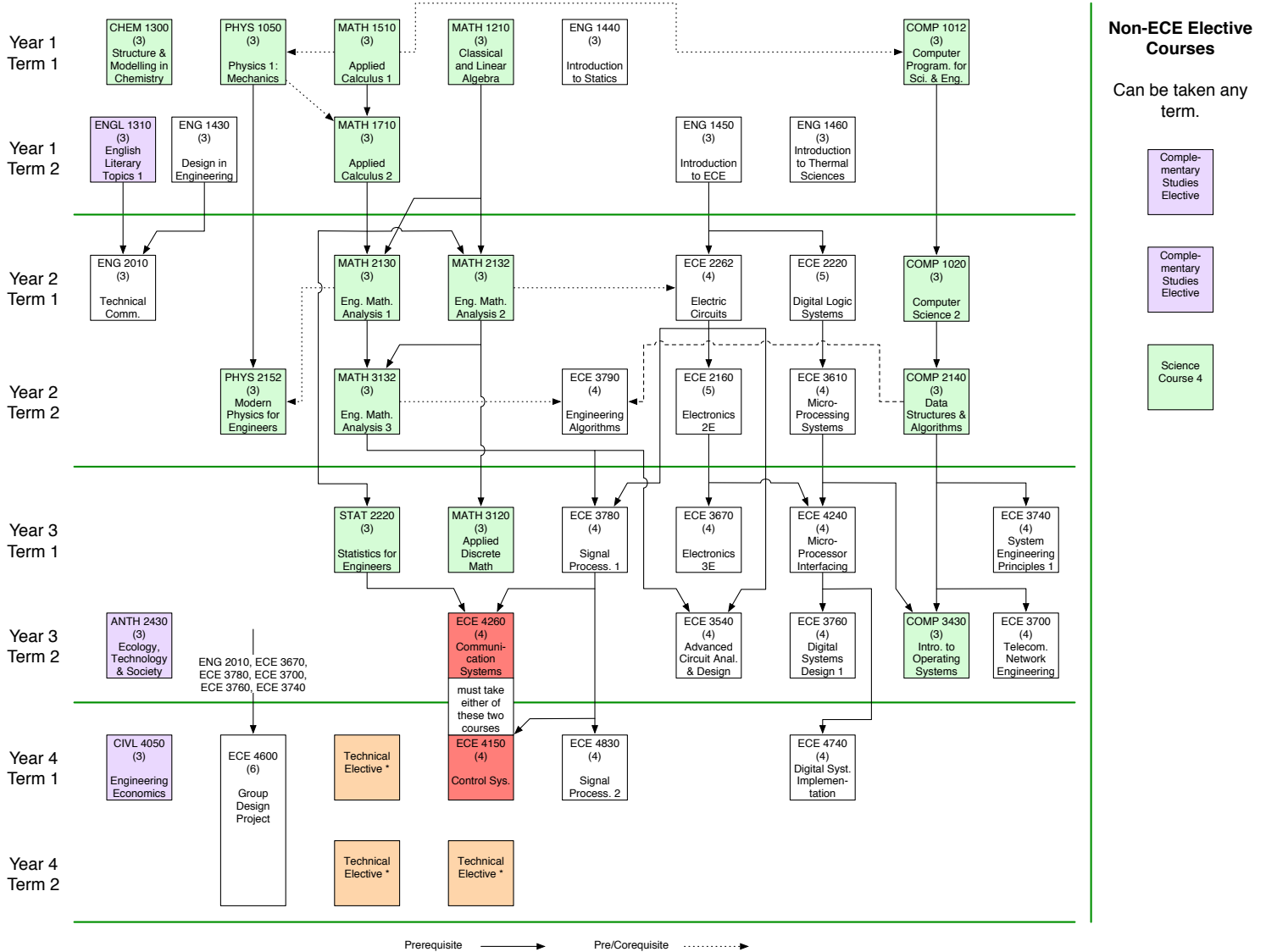


## 2011-2012 Computer Engineering Course Flow Chart 4 year program



**Computer Engineering Electives (Fall Term)**

ECE 4540 (4) Wireless Networks (ECE 3700, ECE 3780)

**Computer Science Electives (Fall Term)**

COMP 2160 (3) Programming Practices (COMP 1020)  
 COMP 3020 (3) Human Computer Interaction 1 (COMP 2140)  
 COMP 3190 (3) Intro. Artificial Intelligence (COMP 2140)  
 COMP 3290 (3) Intro. Compiler Construction 1 (ECE 3610, COMP 2140)  
 COMP 3380 (3) Database Concepts & Usage (COMP 2140)  
 COMP 3490 (3) Computer Graphics 1 (COMP 2140 / Completion of 3rd year)

**Allowed Electrical Engineering Courses (Fall Term)**

ECE 3580 (4) Foundations of Electromagnetics (MATH 3132, PHYS 2152)  
 ECE 3720 (4) Electric Power & Machines (ECE 2262)  
 ECE 4390 (4) Engineering Computations 4E (MATH 3132)  
 ECE 4610 (4) Biomedical Instrumentation & Signal Processing (ECE 3780, ECE 2160)

**Not Offered 2009 - 2010**

ECE 4100 (4) Microelectronic Fabrication (ECE 3670)  
 ECE 4530 (4) Parallel Processing (COMP 2140, ECE 3760)  
 ECE 4850 (4) Performance Evaluation for Communications and Computer Eng. (STAT 2220)

**Computer Engineering Electives (Spring Term)**

ECE 3770 (4) Digital Systems Design 2 (ECE 4240, MATH 3120)  
 ECE 4250 (4) Digital Communications (ECE 4830, ECE 4260)  
 ECE 4420 (4) Digital Control (ECE 4830, ECE 4150)  
 ECE 4440 (4) Computer Vision (ECE 3780)  
 ECE 4520 (4) Simulation & Modelling (COMP 2140, STAT 2220)

**Computer Science Electives (Spring Term)**

COMP 2150 (3) Object Orientation (COMP 2160, COMP 2140)  
 COMP 3010 (3) Distributed Computing (COMP 2140, COMP 2150)  
 COMP 4020 (3) Human Computer Interaction 2 (COMP 3020)

**Allowed Electrical Engineering Courses (Spring Term)**

ECE 3600 (4) Physical Electronics (PHYS 2152, MATH 3132, ECE 3670)

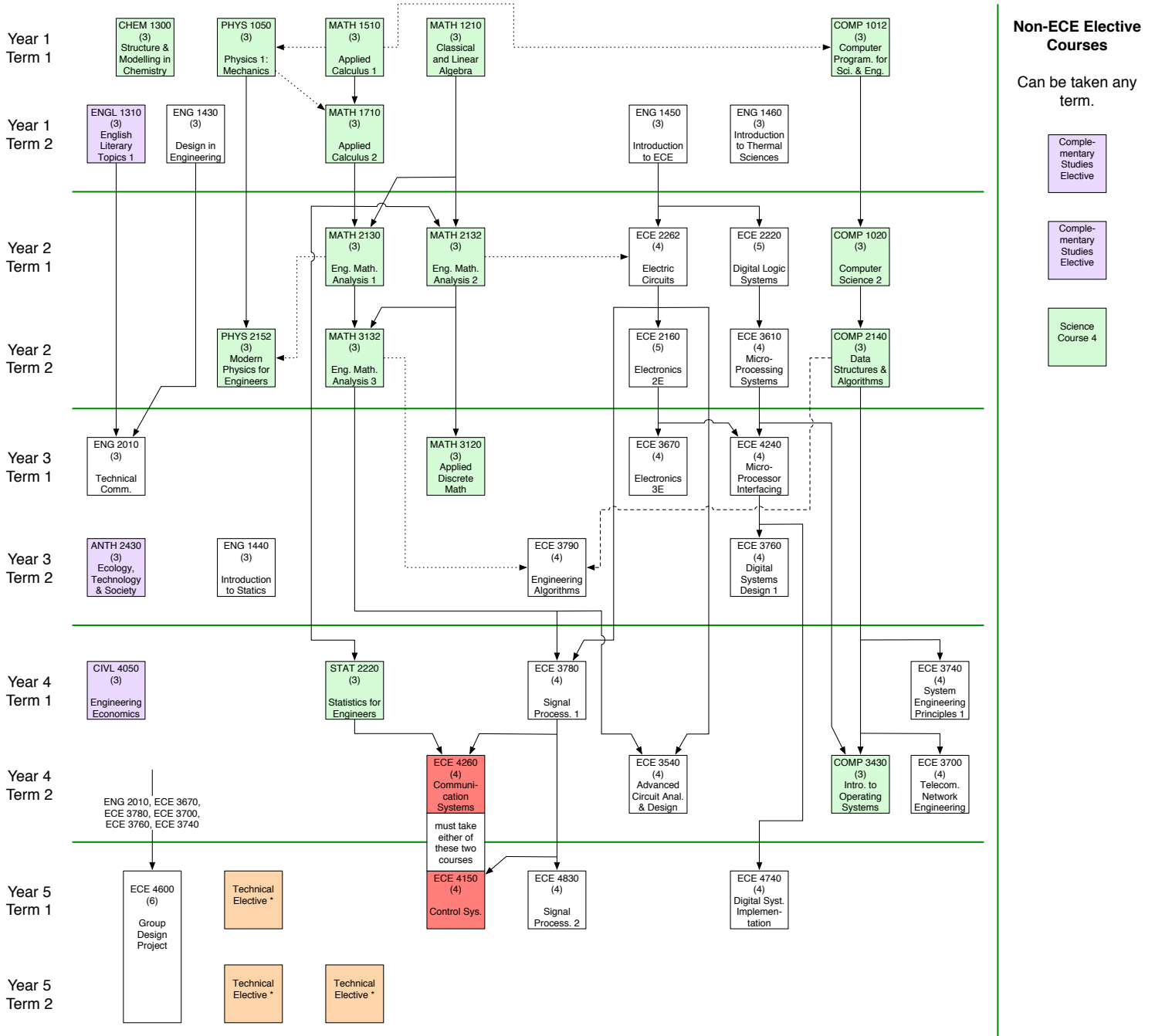
**Not Offered 2010 - 2011**

ECE 3750 (4) System Engineering Principles 2 (ECE 3740)

\* 4th year electives may be taken in either first or second term. 1 TE elective, 1 EE course, and 1 computer science course are required.

This flow chart is a guideline, and only applies for the current calendar year. It should not be used as a guideline for subsequent years. Errors may be present in this document. Students should reference information in the University Calendar.

# 2011-2012 Computer Engineering Course Flow Chart 5 year program



Prerequisite → Pre/Corequisite ·····→

**Computer Engineering Electives (Fall Term)**

ECE 4540 (4) Wireless Networks (ECE 3700, ECE 3780)

**Computer Science Electives (Fall Term)**

COMP 2160 (3) Programming Practices (COMP 1020)  
 COMP 3020 (3) Human Computer Interaction 1 (COMP 2140)  
 COMP 3190 (3) Intro. Artificial Intelligence (COMP 2140)  
 COMP 3290 (3) Intro. Compiler Construction 1 (ECE 3610, COMP 2140)  
 COMP 3380 (3) Database Concepts & Usage (COMP 2140)  
 COMP 3490 (3) Computer Graphics 1 (COMP 2140 / Completion of 3rd year)

**Allowed Electrical Engineering Courses (Fall Term)**

ECE 3580 (4) Foundations of Electromagnetics (MATH 3132, PHYS 2152)  
 ECE 3720 (4) Electric Power & Machines (ECE 2262)  
 ECE 4390 (4) Engineering Computations 4E (MATH 3132)  
 ECE 4610 (4) Biomedical Instrumentation & Signal Processing (ECE 3780, ECE 2160)

**Not Offered 2010 - 2011**

ECE 4100 (4) Microelectronic Fabrication (ECE 3670)  
 ECE 4530 (4) Parallel Processing (COMP 2140, ECE 3760)  
 ECE 4850 (4) Performance Evaluation for Communications and Computer Eng. (STAT 2220)

**Computer Engineering Electives (Spring Term)**

ECE 3770 (4) Digital Systems Design 2 (ECE 4240, MATH 3120)  
 ECE 4250 (4) Digital Communications (ECE 4830, ECE 4260)  
 ECE 4420 (4) Digital Control (ECE 4830, ECE 4150)  
 ECE 4440 (4) Computer Vision (ECE 3780)  
 ECE 4520 (4) Simulation & Modelling (COMP 2140, STAT 2220)

**Computer Science Electives (Spring Term)**

COMP 2150 (3) Object Orientation (COMP 2160, COMP 2140)  
 COMP 3010 (3) Distributed Computing (COMP 2140, COMP 2150)  
 COMP 4020 (3) Human Computer Interaction 2 (COMP 3020)

**Allowed Electrical Engineering Courses (Spring Term)**

ECE 3600 (4) Physical Electronics (PHYS 2152, MATH 3132, ECE 3670)

**Not Offered 2010 - 2011**

ECE 3750 (4) System Engineering Principles 2 (ECE 3740)

\* 4th year electives may be taken in either first or second term. 1 TE elective, 1 EE course, and 1 computer science course are required.

This flow chart is a guideline, and only applies for the current calendar year. It should not be used as a guideline for subsequent years. Errors may be present in this document. Students should reference information in the University Calendar.