

Template for Electrical & Computer Engineering (ECE) Major

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		STA 113 recommended but students may sub MATH 135 or ECE 255
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
BIOLOGY 101L, 102L, 144, or 147		AP credit BIOLOGY 19 is also acceptable.
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
ECE Elective		
ECE Concentration Elective 1		Four approved concentration electives, with two different Areas of Concentration represented and at least two courses in one of the elected areas (3+1, 2+2, 2+1+1).
ECE Concentration Elective 2		
ECE Concentration Elective 3		
ECE Concentration Elective 4		
ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has <i>Senior status</i> .
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year.
SSH 1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH 2		
SSH 3		
SSH 4		
SSH 5		
Elective		
Elective		
Elective		
Elective		

Template for Electrical & Computer Engineering Major (ECE) with a Minor in Biology (BIOLOGY)

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		STA 113 is recommended but students may sub MATH 135/ECE 255
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
BIOLOGY 101L, 102L, 144, or 147		Five courses at the 100 level or above in in BIOLOGY, which may include the gateway courses (BIOLOGY 101L/102L, or BIOLOGY 25L/26L <i>if previously taken</i>), but not advanced placement credit (BIOLOGY 19) . They may include a maximum of one course from approved courses in the basic science departments of the School of Medicine or from approved courses of a basic biological character in related departments. A maximum of one independent-study or tutorial course may be included toward the five courses. It is strongly recommended that students discuss their biology course selections with the Directory of Undergraduate Studies (DUS) in BIOLOGY.
BIOLOGY Elective		
BIOLOGY Elective		
BIOLOGY Elective		
BIOLOGY Elective		
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
ECE Elective		
ECE Concentration Elective 1		Four approved concentration electives, with two different Areas of Concentration represented and at least two courses in one of the elected areas (3+1, 2+2, 2+1+1).
ECE Concentration Elective 2		
ECE Concentration Elective 3		
ECE Concentration Elective 4		
ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has Senior status.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year
SSH 1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH 2		
SSH 3		
SSH 4		
SSH 5		

Template for an Electrical & Computer Engineering (ECE) and Biomedical Engineering (BME) Dual Major for Students Who Matriculated before 2011

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		
CHEM 31L		
CHEM 32L or 151L		All BME majors are required to take two CHEM courses. Students who receive AP credit (CHEM 19) need take only one course, typically CHEM 32L or CHEM 151L
PHYSICS 61L		
PHYSICS 62L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
BIOLOGY 101L		AP credit BIOLOGY 19 is not an acceptable substitute.
Physiology or Life Science Elective		If BME 233 is taken, choose from the approved list of Physiology Electives in BME Handbook; if BME 201L is taken, choose from the approved list of Life Science Electives in BME Handbook.
Engineering Topics		
ECE 27L or BME 153L		See the Undergraduate Bulletin for prerequisites.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Concentration Elective		Two approved concentration electives in <i>one</i> Area of ECE Concentration.
ECE Concentration Elective		
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
EGR 75L		
ME 83L		Take EGR 75 first.
BME 154L		
BME 100L		
BME 201L or BME 233		
BME-ECE Design Elective		BME 236L, BME 261L or BME264L, to be taken in semester when student has <i>Senior status</i> .
BME Elective		
BME Area Elective		If BME 201L is taken, the BME Area Elective must be from the Bioelectricity Area; if BME 233 is taken, the Area Elective must be from the Imaging and Sensors Area.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		
Other General Education		
Writing 20		University writing program, required first year
SSH1		
SSH2		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH3		
SSH4		
SSH5		

Template for an Electrical & Computer Engineering (ECE) and Biomedical Engineering (BME) Dual Major for Students Who Matriculate after 2010

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		
CHEM 31L		All BME majors are required to take two CHEM courses. Students who receive AP credit (CHEM 19) need take only one course, typically CHEM 32L or CHEM 151L
CHEM 32L or 151L		
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143 (PHYSICS 41L/42L acceptable for transfers from Trinity College.)
PHYSICS 62L		
BIOLOGY 101L		AP credit BIOLOGY 19 is not an acceptable substitute.
Life Science Elective		Choose from the approved list in the BME Handbook.
Engineering Topics		
ECE 27L or BME 153L		See the Undergraduate Bulletin for prerequisites.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Concentration Elective		Two approved concentration electives in <i>one</i> Area of ECE Concentration.
ECE Concentration Elective		
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
EGR 75L		
ME 83L		Take EGR 75 first.
BME 100L		
BME 144L		
BME 154L		
BME 201L or BME 233		
BME Area Elective		If BME 233 is elected (above), choose from the approved list of Physiology Electives; if BME 201L is elected (above), choose from the approved list of Life Science Electives. See both lists in the BME Undergraduate Program Handbook.
BME-ECE Design Elective		BME 236L or BME264L, to be taken in semester when student has <i>Senior status</i> .
BME General Elective		May be at any level.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
Writing 20		University writing program, required first year
SSH1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH2		
SSH3		
SSH4		
SSH5		

Template for an Electrical & Computer Engineering (ECE) and Computer Science (COMPSCI) Dual Major

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		STA 113 is recommended but students may sub MATH 135/ECE 255
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
BIOLOGY 101L, 102L, 144, or 147		AP credit BIOLOGY 19 is also acceptable.
<u>Engineering Topics</u>		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 152		Prerequisite ECE 52L and COMPSCI 100E.
ECE Digital Systems Elective		
ECE Concentration Elective		Excluding Digital Systems, which is built into this program
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
ECE Elective		
ECE/COMPSCI Design Elective		Course from Approved List (ECE 135, 154, 251, & 261) must be taken in semester in which student has <i>Senior status</i>
EGR 53L		
COMPSCI 100E		Prerequisite EGR 53L.
COMPSCI 108		
COMPSCI 110 (C-L ECE 153)		
COMPSCI Elective		COMPSCI 130, 140, or 150
COMPSCI Elective		COMPSCI 100 level or higher
<u>Other General Education</u>		
Writing 20		University writing program, required first year
SSH1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH2		
SSH3		
SSH4		
SSH5		
Elective		

Template for an Electrical & Computer Engineering (ECE) Major with an Economics (ECON) Minor

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		STA 113 is recommended but students may sub MATH 135/ECE 255
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
BIOLOGY 101L, 102L, 144, or 147		AP credit BIOLOGY 19 is also acceptable.
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
ECE Elective		
ECE Concentration Elective 1		Four approved concentration electives, with two different Areas of Concentration represented and at least two courses in one of the elected areas (3+1, 2+2, 2+1+1).
ECE Concentration Elective 2		
ECE Concentration Elective 3		
ECE Concentration Elective 4		
ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has Senior status.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year
ECON 51D		
ECON 55D		
ECON Elective		Any ECON course at the 100 level or above, excluding ECON 182 and 888. Students are strongly advised to discuss options with the ECON DUS. It may be possible to choose ECON (SS) courses that are also in one of the required SS-H (ALP, CZ, FL) areas.
ECON Elective		
ECON Elective		
SS-H 1		SS-H choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level). The ECON courses are SS courses. Depending upon ECON Elective choices and AP credits (up to 2), SS-H courses might become Free Electives or reduce the load in 5-course semesters.
SS-H 2		
SS-H 3		
Elective		

Template for Electrical & Computer Engineering Major (ECE) with a Marine Lab Option

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		STA 113 is recommended but students may sub MATH 135/ECE 255
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
BIOLOGY 101L, 102L, 144 or 147		AP credit BIOLOGY 19 is also acceptable. Check course schedule for the in-residence term; one or more may be taught at the Marine Lab.
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Elective		ECE 182L (taught at the Marine Lab) is recommended, but can be any ECE course at the 100 level, except ECE 148.
ECE 191/2 Independent Study		ECE-relevant Marine Lab Application
ECE Concentration Elective 1		Four approved concentration electives, with two different Areas of Concentration represented and at least two courses in one of the elected areas (3+1, 2+2, 2+1+1).
ECE Concentration Elective 2		
ECE Concentration Elective 3		
ECE Concentration Elective 4		
Approved ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has Senior status.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year
SS-H 1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level). There are a number of SSH courses offered at the Marine Lab that can be used to fulfill one SSH requirement.
SS-H 2		
SS-H 3		
SS-H 4		
SS-H 5		
Elective		
Elective		
Elective		
Elective		

Template for an Electrical & Computer Engineering (ECE) and Mathematics (MATH) Dual Major

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 104		
MATH 121 or MATH 200		Modern Algebra, or MATH 200 Algebraic Structures I
MATH 131		
MATH 133		
MATH 135		
MATH 139 or MATH 203		Advanced Calculus I, or MATH 203, Basic Analysis I
MATH Elective		One of MATH 136, 181, 201, 204, 205, 206, 215, 216.
MATH Elective		Any MATH course numbered above MATH 107.
MATH Elective		
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
BIOLOGY 101L, 102L, 144, or 147		AP credit BIOLOGY 19 is also acceptable.
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
ECE Elective		
ECE Concentration Elective 1		Four approved concentration electives, with two different Areas of Concentration represented and at least two courses in one of the elected areas (3+1, 2+2, 2+1+1).
ECE Concentration Elective 2		
ECE Concentration Elective 3		
ECE Concentration Elective 4		
ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has Senior status.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year
SSH 1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH 2		
SSH 3		
SSH 4		
SSH 5		

Template for an Electrical & Computer Engineering (ECE) and Mechanical Engineering (ME)
Dual Major

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
ECE 255		
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
BIOLOGY 101L, 102L, 144, or 147		AP credit BIOLOGY 19 is also acceptable.
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 142		Prerequisite ECE 54L. Cross-Listed as ME 142.
ECE Concentration Elective		Two approved concentration electives in <i>one Area</i> of ECE Concentration.
ECE Concentration Elective		
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
Approved ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has Senior status.
EGR 53L		
EGR 75L		
EGR 123L		Prerequisite EGR 75L.
ME 83L		Prerequisite EGR 75L.
ME 101L		
ME 125L		For the dual major, ECE 27L
ME 126L		Prerequisite EGR 123L and ME 101L.
ME 131L		Prerequisite EGR 75L and 123L.
ME 141L		Prerequisite EGR 123L and ME 131L.
ME 150L		Prerequisite ME 101L and 126L.
ME 160L		
ME Technical Elective		Any ME course at 100 level or higher.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year
SSH 1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH 2		
SSH 3		
SSH 4		
SSH 5		

Template for an Electrical & Computer Engineering (ECE) and Physics (PHYSICS) Dual Major

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		STA 113 is recommended but students may sub MATH 135/ECE 255
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
PHYSICS 143L		Prerequisite ERG 53L; co-requisite MATH 32.
PHYSICS 181		
PHYSICS 182		
PHYSICS 211		
PHYSICS 212		
PHYSICS 217s		
PHYSICS Elective		Any PHYSICS course at 100 level or above except PHYSICS 115, 171 or 230.
BIOLOGY 101L, 102L, 144, or 147		AP credit BIOLOGY 19 is also acceptable.
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 176		Prerequisite MATH 103 and PHYSICS 62L. C-L PHYSICS 176.
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
ECE Concentration Elective 1		Four approved concentration electives, with two different Areas of Concentration represented and at least two courses in one of the elected areas (3+1, 2+2, 2+1+1).
ECE Concentration Elective 2		
ECE Concentration Elective 3		
ECE Concentration Elective 4		
ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has Senior status.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year
SSH 1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH 2		
SSH 3		
SSH 4		
SSH 5		

Template for an Electrical & Computer Engineering (ECE) Major with a Physics (PHYSICS) Minor

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		STA 113 is recommended but students may sub MATH 135/ECE 255
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
PHYSICS 143L		Students who take PHYSICS 143L in lieu of 61L & 62L, substitute a second PHYSICS Elective at 100 level or above.
PHYSICS Elective		Any PHYSICS course at 100 level or above, except PHYSICS 171L.
PHYSICS Elective		
BIOLOGY 101L, 102L, 144, or 147		AP credit BIOLOGY 19 is also acceptable.
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Elective		Any ECE course at or above the 100 level, except ECE 148 which may be taken as a general elective. If ECE 176 (C-L PHYSICS 176) is elected, it may count as BOTH one PHYSICS Elective and one ECE Elective.
ECE Elective		
ECE Concentration Elective 1		Four approved concentration electives, with two different Areas of Concentration represented and at least two courses in one of the elected areas (3+1, 2+2, 2+1+1).
ECE Concentration Elective 2		
ECE Concentration Elective 3		
ECE Concentration Elective 4		
ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has Senior status.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year
SSH 1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH 2		
SSH 3		
SSH 4		
SSH 5		
Free Elective		
Free Elective		

Template for an Electrical & Computer Engineering (ECE) Major for Premed Students

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		STA 113 is recommended but students may sub MATH 135/ECE 255
CHEM 31L		AP credit CHEM 19 is also acceptable.
CHEM 32L		
CHEM 151L		Sophomore or Junior year, or earlier if prerequisites met.
CHEM 152L		Sophomore or Junior year, or earlier if prerequisites met.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
BIOLOGY 101L or 102L		AP credit BIOLOGY 19 is not sufficient.
BIOLOGY Lab Elective		Generally the remaining BIOLOGY 101L or 102L course.
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
ECE Elective		
ECE Concentration Elective 1		Four approved concentration electives, with two different Areas of Concentration represented and at least two courses in one of the elected areas (3+1, 2+2, 2+1+1).
ECE Concentration Elective 2		
ECE Concentration Elective 3		
ECE Concentration Elective 4		
ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has Senior status.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year
SSH1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH2		
SSH3		
SSH4		
SSH5		

Template for an Electrical & Computer Engineering Major (ECE) with a Statistics and Decision Sciences Minor (STA)

Mathematics and Basic Science	Semester	Notes
MATH 31		
MATH 32		
MATH 103		
MATH 107		
MATH 108		
STA 113		STA 113 is recommended but students may sub MATH 135/STA 104.
STA Elective		Any four STA courses from STA 114 (C-L MATH 136), 121, 122, 130, 135, 140, 145S, 175, 180.
STA Elective		
STA Elective		
STA Elective		
CHEM 31L		AP credit CHEM 19 is also acceptable.
PHYSICS 61L		Matriculating students who have AP credit for PHYSICS 61L (but not 62L) take PHYSICS 62L; those who have AP for PHYSICS 61L & 62L take PHYSICS 63L; and international students who have IPCs for GCE A-level physics take PHYSICS 63L or 143.
PHYSICS 62L		
BIOLOGY 101L, 102L, 144, or 147		AP credit BIOLOGY 19 is also acceptable.
Engineering Topics		
ECE 27L		Prerequisite ERG 53L; co-requisite MATH 32.
ECE 51L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 52L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE 53L		Prerequisite MATH 107, EGR 53L and either ECE 27L or BME 153L.
ECE 54L		Prerequisite EGR 53L and either ECE 27L or BME 153L.
ECE Elective		Any ECE course at 100 level or above except 148L, which latter course may be taken as a general elective.
ECE Elective		
ECE Concentration Elective 1		Four approved concentration electives, with two different Areas of Concentration represented and at least two courses in one of the elected areas (3+1, 2+2, 2+1+1).
ECE Concentration Elective 2		
ECE Concentration Elective 3		
ECE Concentration Elective 4		
ECE Design Elective		Course from Approved List (ECE 123, 135, 154, 164, 251, & 261) must be taken in semester in which student has Senior status.
EGR 53L		Students matriculating prior to 2004 may substitute a free elective.
COMPSCI 100E or 100		COMPSCI 100E is recommended. EGR 53L is prerequisite for COMPSCI 100E and recommended before COMPSCI 100.
Other General Education		
WRITING 20		University writing program, required first year
SSH 1		SSH choices must cover 3 of 4 Areas of Knowledge (ALP, CZ, FL, SS), must include at least one SS course and must include at least two courses from a single department (with at least one at the 100 or higher level).
SSH 2		
SSH 3		
SSH 4		
SSH 5		