Computer Science and Engineering Flow Chart Fall 2020 & After

Shaded boxes are LCCC courses. Plain boxes are UT courses.
Lines with arrows between courses indicate a pre-requisite
Dotted lines indicate courses taken prior to or concurrent with a course.
Pre-requisites (PR) listed below course; or see catalog; not all are "lined".
Courses should typically be taken in the order shown due to pre-reqs/offerings.
Selection of Hums/Soc/MC Div. electives must be selected from UT Core
Brackets [1], [2], [3] indicate pre-requisites for co-ops 1,2, and 3
Minimum GPA of 3.0 overall (combined) is suggested for Co-Op eligibility.
Co-Ops are to be completed in rotation shown, exceptions must be pre-approved.

All CSE students at the LCCC campus are required to meet with the
Associate Director (AD) for advising & registration each semester.
All schedule adjustments/withdrawals must be approved by AD.
Summer courses are recom'd 1st & 4th years in program to reduce
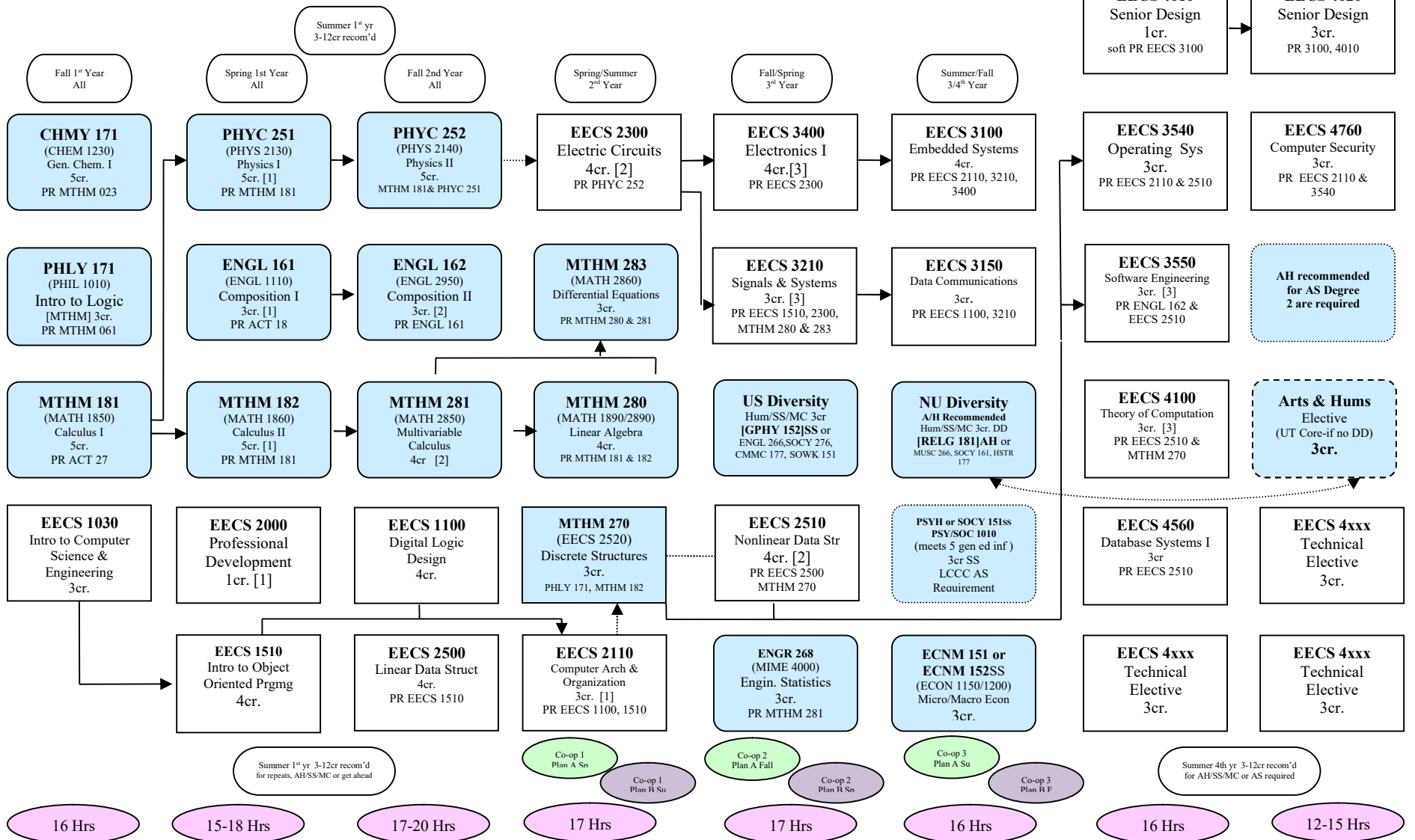course load, esp. in final semester; required during co-op rotations.
This is a 4.5-5 yr program due to co-ops and lockstep nature.
Most courses have pre-reqs even if not indicated by lines.
Pre-reqs are listed in each block or see AD concerning pre-reqs.
CSE Flow Chart for LCCC varies slightly from main campus.

Variances: ENGL 161/162 in 2nd & 3rd semester due to total cr. hrs. in 1st sem. vs. @ UT. ENGR 268 in F/Sp instead of Su/F due to LCCC course/instructor . 132 cr total due to 1 add'l. cr hr in LCCC MTHM 181, 182, 280 & CHMY 171.

Phase/term labels: Fall 1st Year All · Spring 1st Year All · Summer 1st yr 3-12cr recom'd · Fall 2nd Year All · Spring/Summer 2nd Year · Fall/Spring 3rd Year · Summer/Fall 3/4th Year · Spring 4th Yr All · Summer 4th yr 3-12cr recom'd · Fall 5th Year All

Course Blocks

EECS 4010 Senior Design 1cr. soft PR EECS 3100
EECS 4020 Senior Design 3cr. PR 3100, 4010

CHMY 171 (CHEM 1230) Gen. Chem. I 5cr. PR MTHM 023
PHYC 251 (PHYS 2130) Physics I 5cr. [1] PR MTHM 181
PHYC 252 (PHYS 2140) Physics II 5cr. MTHM 181 & PHYC 251
EECS 2300 Electric Circuits 4cr. [2] PR PHYC 252
EECS 3400 Electronics I 4cr. [3] PR EECS 2300
EECS 3100 Embedded Systems 4cr. PR EECS 2110, 3210, 3400
EECS 3540 Operating Sys 3cr. PR EECS 2110 & 2510
EECS 4760 Computer Security 3cr. PR EECS 2110 & 3540

PHLY 171 (PHIL 1010) Intro to Logic [MTHM] 3cr. PR MTHM 061
ENGL 161 (ENGL 1110) Composition I 3cr. [1] PR ACT 18
ENGL 162 (ENGL 2950) Composition II 3cr. [2] PR ENGL 161
MTHM 283 (MATH 2860) Differential Equations 3cr. PR MTHM 280 & 281
EECS 3210 Signals & Systems 3cr. [3] PR EECS 1510, 2300, MTHM 280 & 283
EECS 3150 Data Communications 3cr. PR EECS 1100, 3210
EECS 3550 Software Engineering 3cr. [3] PR ENGL 162 & EECS 2510
AH recommended for AS Degree 2 are required

MTHM 181 (MATH 1850) Calculus I 5cr. PR ACT 27
MTHM 182 (MATH 1860) Calculus II 5cr. [1] PR MTHM 181
MTHM 281 (MATH 2850) Multivariable Calculus 4cr [2]
MTHM 280 (MATH 1890/2890) Linear Algebra 4cr. PR MTHM 181 & 182
US Diversity Hum/SS/MC 3cr [GPHY 152]SS or ENGL 266, SOCY 276, CMMC 177, SOWK 151
NU Diversity A/H Recommended Hum/SS/MC 3cr. DD [RELG 181]AH or MUSC 266, SOCY 161, HSTR 177
EECS 4100 Theory of Computation 3cr. [3] PR EECS 2510 & MTHM 270
Arts & Hums Elective (UT Core-if no DD) **3cr.**

EECS 1030 Intro to Computer Science & Engineering 3cr.
EECS 2000 Professional Development 1cr. [1]
EECS 1100 Digital Logic Design 4cr.
MTHM 270 (EECS 2520) Discrete Structures 3cr. PHLY 171, MTHM 182
EECS 2510 Nonlinear Data Str 4cr. [2] PR EECS 2500 MTHM 270
PSYH or SOCY 151ss PSY/SOC 1010 (meets 5 gen ed inf) 3cr SS LCCC AS Requirement
EECS 4560 Database Systems I 3cr PR EECS 2510
EECS 4xxx Technical Elective 3cr.

EECS 1510 Intro to Object Oriented Prgmg 4cr.
EECS 2500 Linear Data Struct 4cr. PR EECS 1510
EECS 2110 Computer Arch & Organization 3cr. [1] PR EECS 1100, 1510
ENGR 268 (MIME 4000) Engin. Statistics 3cr. PR MTHM 281
ECNM 151 or ECNM 152SS (ECON 1150/1200) Micro/Macro Econ 3cr.
EECS 4xxx Technical Elective 3cr.
EECS 4xxx Technical Elective 3cr.

Co-ops
Co-op 1 Plan A Sp · Co-op 1 Plan B Su
Co-op 2 Plan A Fall · Co-op 2 Plan B Sp
Co-op 3 Plan A Su · Co-op 3 Plan B F

Summer 1st yr 3-12cr recom'd for repeats, AH/SS/MC or get ahead
Summer 4th yr 3-12cr recom'd for AH/SS/MC or AS required

Credit Hours per term
16 Hrs · 15-18 Hrs · 17-20 Hrs · 17 Hrs · 17 Hrs · 16 Hrs · 16 Hrs · 12-15 Hrs

This Flow Chart is Effective for Students entering the program Fall 2020 or after.