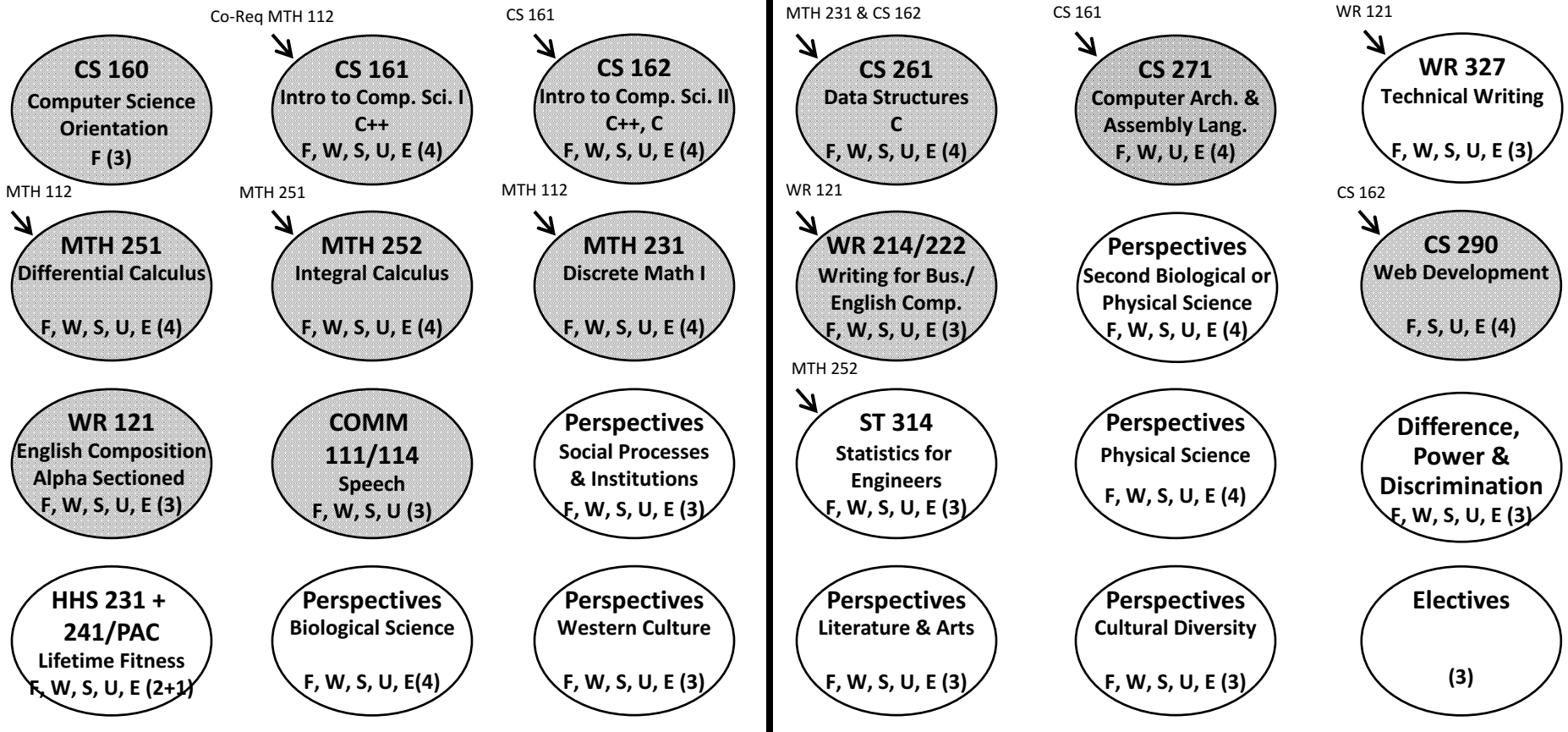# COMPUTER SCIENCE – APPLIED OPTION

FIRST YEAR *Academic Year 2017-2018* SECOND YEAR

Fall	Winter	Spring	Fall	Winter	Spring
CS 160 Computer Science Orientation F (3)	Co-Req MTH 112 → **CS 161** Intro to Comp. Sci. I C++ F, W, S, U, E (4)	CS 161 → **CS 162** Intro to Comp. Sci. II C++, C F, W, S, U, E (4)	MTH 231 & CS 162 → **CS 261** Data Structures C F, W, S, U, E (4)	CS 161 → **CS 271** Computer Arch. & Assembly Lang. F, W, U, E (4)	WR 121 → **WR 327** Technical Writing F, W, S, U, E (3)
MTH 112 → **MTH 251** Differential Calculus F, W, S, U, E (4)	MTH 251 → **MTH 252** Integral Calculus F, W, S, U, E (4)	MTH 112 → **MTH 231** Discrete Math I F, W, S, U, E (4)	WR 121 → **WR 214/222** Writing for Bus./ English Comp. F, W, S, U, E (3)	**Perspectives** Second Biological or Physical Science F, W, S, U, E (4)	CS 162 → **CS 290** Web Development F, S, U, E (4)
WR 121 English Composition Alpha Sectioned F, W, S, U, E (3)	**COMM 111/114** Speech F, W, S, U (3)	**Perspectives** Social Processes & Institutions F, W, S, U, E (3)	MTH 252 → **ST 314** Statistics for Engineers F, W, S, U, E (3)	**Perspectives** Physical Science F, W, S, U, E (4)	**Difference, Power & Discrimination** F, W, S, U, E (3)
HHS 231 + 241/PAC Lifetime Fitness F, W, S, U, E (2+1)	**Perspectives** Biological Science F, W, S, U, E(4)	**Perspectives** Western Culture F, W, S, U, E (3)	**Perspectives** Literature & Arts F, W, S, U, E (3)	**Perspectives** Cultural Diversity F, W, S, U, E (3)	**Electives** (3)

Notes:

1. F, W, S, U: Represents the term the course is offered (**F**all, **W**inter, **S**pring, S**u**mmer, **E**campus)
2. (_) : Represents the credits of the course
3. Arrows: Represents prerequisites and co-requisites for that course
4. Shaded courses are required prior to admission to the Professional Program
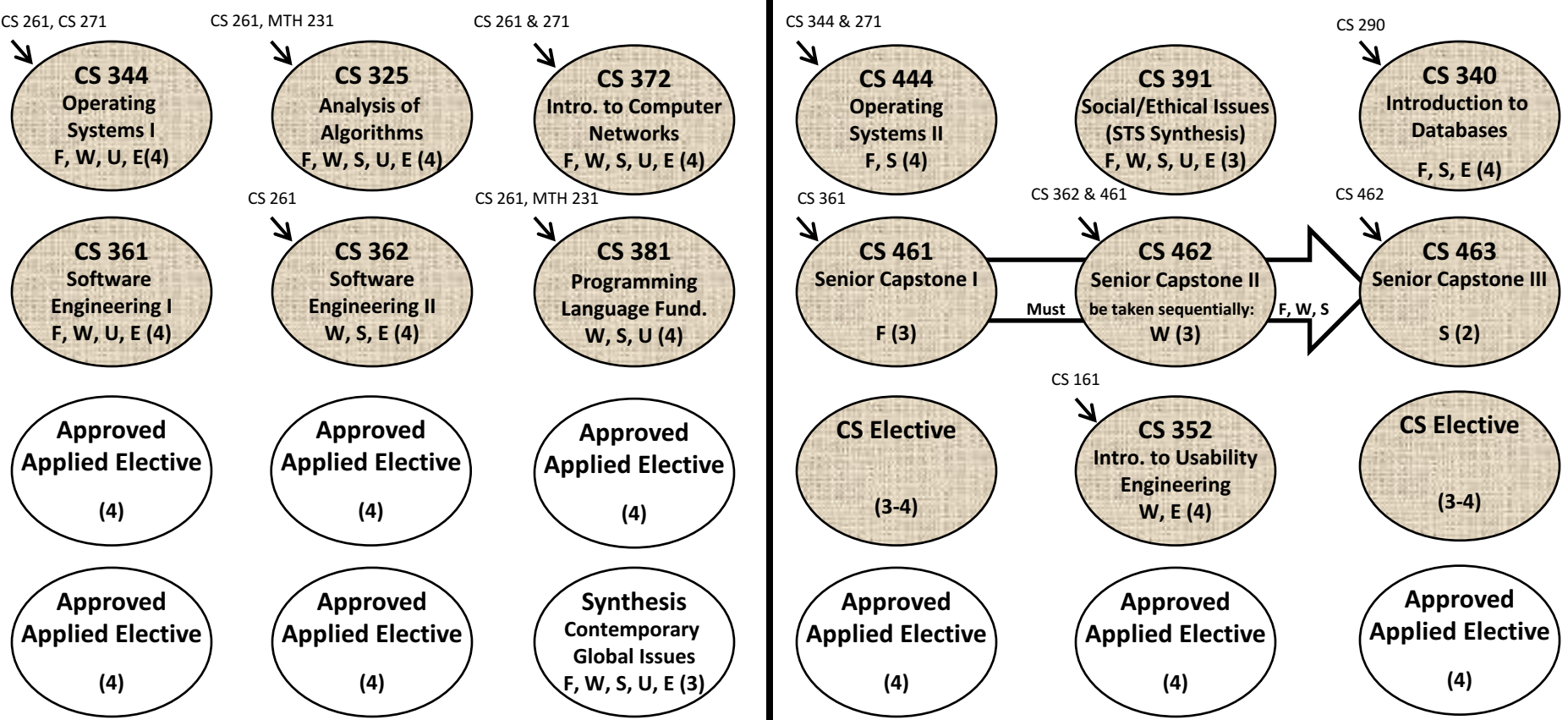5. Summer Courses may be cancelled due to low enrollment

COMPUTER SCIENCE – APPLIED OPTION

THIRD YEAR *Academic Year 2017-2018* FOURTH YEAR

Fall	Winter	Spring	Fall	Winter	Spring

CS 261, CS 271

CS 344
Operating Systems I
F, W, U, E(4)

CS 261, MTH 231

CS 325
Analysis of Algorithms
F, W, S, U, E (4)

CS 261 & 271

CS 372
Intro. to Computer Networks
F, W, S, U, E (4)

CS 344 & 271

CS 444
Operating Systems II
F, S (4)

CS 391
Social/Ethical Issues (STS Synthesis)
F, W, S, U, E (3)

CS 290

CS 340
Introduction to Databases
F, S, E (4)

CS 361
Software Engineering I
F, W, U, E (4)

CS 261

CS 362
Software Engineering II
W, S, E (4)

CS 261, MTH 231

CS 381
Programming Language Fund.
W, S, U (4)

CS 361

CS 461
Senior Capstone I
F (3)

CS 362 & 461

CS 462
Senior Capstone II
Must be taken sequentially:
W (3)

CS 462

CS 463
Senior Capstone III
F, W, S
S (2)

Approved Applied Elective
(4)

Approved Applied Elective
(4)

Approved Applied Elective
(4)

CS Elective
(3-4)

CS 161

CS 352
Intro. to Usability Engineering
W, E (4)

CS Elective
(3-4)

Approved Applied Elective
(4)

Approved Applied Elective
(4)

Synthesis
Contemporary Global Issues
F, W, S, U, E (3)

Approved Applied Elective
(4)

Approved Applied Elective
(4)

Approved Applied Elective
(4)

Notes:
1. Textured courses are Professional Program courses
2. Summer Courses may be cancelled due to low enrollment
3. CS 391 counts for both Major and Science, Technology and Society (Synthesis) credits
4. Experience with C programming is required to begin Professional Program courses
5. 180 total credits are needed to graduate
6. Approved Applied Plans require 32 credits approved by the Curriculum Committee