

FLOWCHART

BSEE Requirements (Curriculum Redesign for 125-128 credits)

Updated: 09.02.22, rww

First Year

Second Year

Third Year

Fourth Year

Fall

Spring

Fall

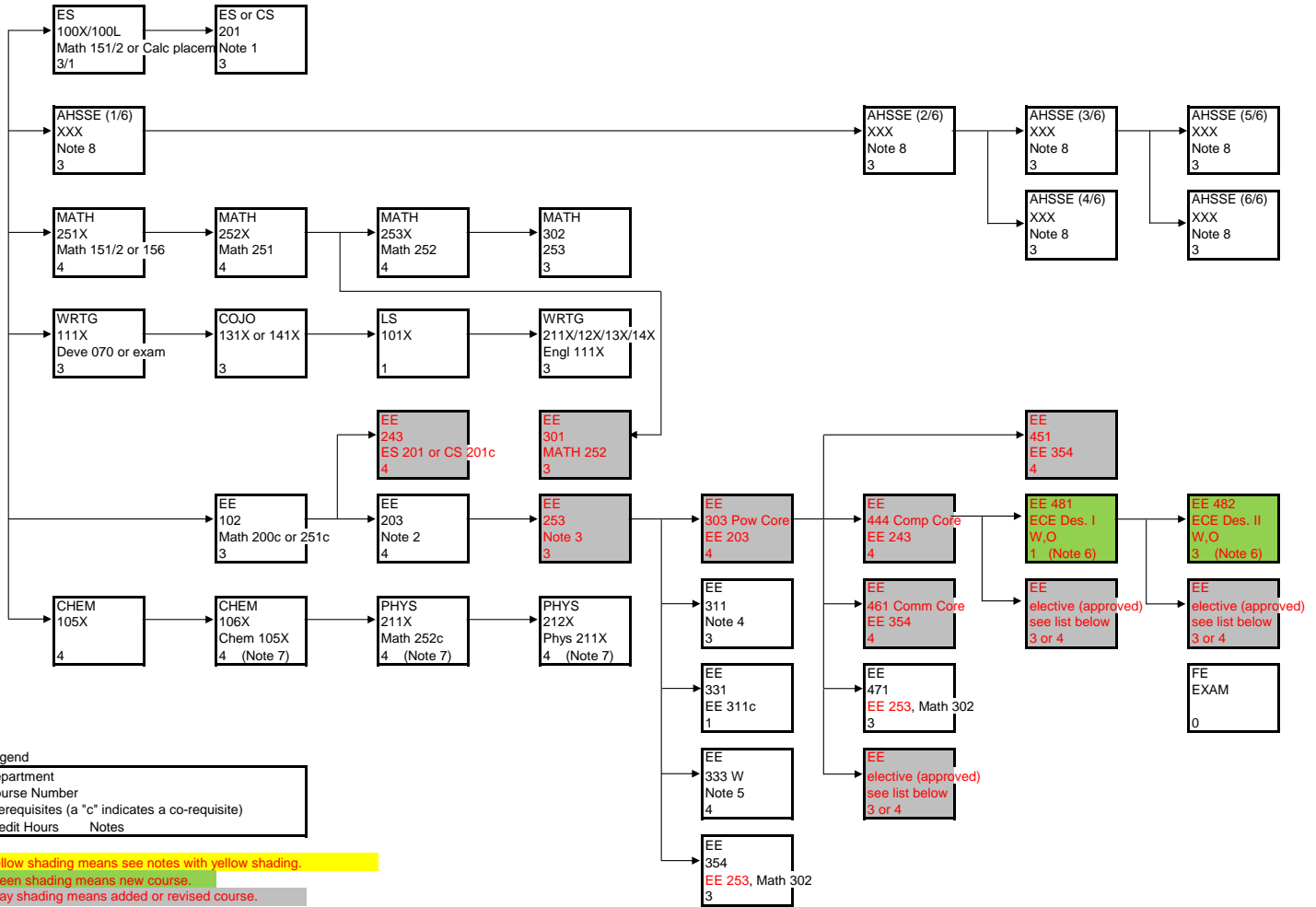
Spring

Fall

Spring

Fall

Spring



Legend

Department	
Course Number	
Prerequisites (a "c" indicates a co-requisite)	
Credit Hours	Notes

- Yellow shading means see notes with yellow shading.
- Green shading means new course.
- Gray shading means added or revised course.

Notes

1. ES 201 pre/co-requisites: Math 151, 152 or Math 251c
CS 201 pre/co-requisites: CS 103 or H.S. programming, Math 251c
2. EE 203 pre/co-requisites: EE 102; Math 251, 252c
3. EE 253 pre/co-requisites: EE 203; ES 201; Math 252
4. EE 311 pre/co-requisites: EE 253; Math 253; Phys 212; Math 302c
5. EE 333 pre/co-requisites: EE 253; WRTG 111X; WRTG 211X/12X/13X/14Xc
6. ECE Design I and II prerequisites include: EE 354, EE 444, COJO 131X/141X, WRTG 111X, and WRTG 211X/12X/13X/14X
7. It is possible to take Chem 105, Phys 211X, 212X, 213X for the Natural Sciences requirement
8. AHSSE = Arts, Humanities, Social Sciences and Ethics courses (6 courses)
1 Arts, 1 Humanities, 2 Soc Sciences, 1 Art or Hum or SS, 1 Ethics
One of the AHSSE courses needs to be an Alaska Native 3 credit course if using Catalog Year 2019-2020 or newer

Math Sequence

- 251 Calculus I
- 252 Calculus II
- 253 Calculus III
- 302 Differential Equations

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Alaska Native Themed Courses (also satisfy 1 AHSSE requirement)

	ANS/FLPA F161X
Arts	ANS F202X
	ANS/ACNS/MUS F233X
	ANL F141X
Humanities	ANLF142X
	ANL F251X
	ANL F255X
Social	ANS F111X
Science	ANS F242X
	ECON F111X*

* Recommend ECON F111X if it fits in schedule.

Approved EE Electives (Offered on a rotating basis.)

EE 334	Electronic Circuit Design	4
EE 404	Electric Power Systems Analysis	4
EE 406	Electric Power Prot. and Ctrl. Systems	4
EE 408	Power Electronics Design	4
EE 412	Electromagnetic Waves & Devices	3
EE 443*	Computer Engr. Analysis and Design	4
EE 464	Advanced Communications Systems	4

Graduate level EE and upper level and graduate CS courses may be used as electives upon approval.

EE 607	Electric Motor Drives	3
EE 609	Ren. & Sus. Energy Systems	3
EE 611	Waves	3
EE 646	Wireless Sensor Networks	3
EE 654	UAS Systems Design	3
EE 656	Aerospace Systems Design	3
EE 662	Digital Communications Theory	3
EE 663	Computational Electromagnetics	3
EE 671	Digital Control Systems	3

* EE 443 offered every spring for BScP students but can also serve as an approved EE elective for BSEE students.