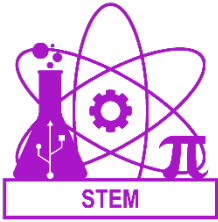


BIG BEND COMMUNITY COLLEGE

STEM

PRE-ENGINEERING – COMPUTER/ELECTRICAL (CEE)



Big Bend Community College offers a comprehensive, state approved, university backed, transfer degree in pre-engineering. The Associate of Science Transfer (Track II) – Major Related Program degree (AS-T II MRP CEE) offers students the ability of entering partnering universities with junior standing in their engineering major. An MRP degree eliminates the guess work of what courses to take in order to be best prepared for entering a specific field of study, in this case engineering.

The AS-T II MRP degree encompasses the certification requirements needed to be admitted into engineering majors at most public and private universities in the Pacific Northwest, specifically in the areas of:

- Computer Engineering (Hardware)
- Electrical Engineering

ENTRY REQUIREMENTS

- Complete Admissions and Placement processes
- Meet with an advisor prior to enrolling

DEGREE REQUIREMENTS

Breadth and Engineering Core (76 credits)

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <input type="checkbox"/> CHEM& 161 – General Chemistry I (5) <input type="checkbox"/> ENGL& 101 – Composition I (5) <input type="checkbox"/> Humanities & Social Sciences (15)
(No more than 15 credits of either area) <p>Some recommended Humanities courses:
 CMST& 220 – Public Speaking (5)
 HUM 214 – Diversity Issues (5)
 Foreign Language (FREN, GERM, SPAN) (5)
 RELS</p> <p>Some recommended Social Science courses:
 ECON& 201 – Microeconomics (5)
 PSYC& 100 – General Psychology (5)
 POLS& 203 – International Relations (5)
 SOC& 101 – Introduction to Sociology (5)</p> | <ul style="list-style-type: none"> <input type="checkbox"/> CS& 131 – Programming C++ (5) <input type="checkbox"/> ENGR& 204 – Electrical Circuits (6) <input type="checkbox"/> MATH& 151 – Calculus I (5) <input type="checkbox"/> MATH& 152 – Calculus II (5) <input type="checkbox"/> MATH& 163 – Calculus 3 (5) <input type="checkbox"/> MATH 220 – Linear Algebra (5) <input type="checkbox"/> MATH 230 – Differential Equations (5) <input type="checkbox"/> PHYS& 221 – Engineering Physics I (5) <input type="checkbox"/> PHYS& 222 – Engineering Physics II (5) <input type="checkbox"/> PHYS& 223 – Engineering Physics III (5) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Electives (25 Credits)

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <input type="checkbox"/> CHEM& 162 – General Chemistry II (5) <input type="checkbox"/> CS 132 – Advanced Programming C++ (5) <input type="checkbox"/> ENGL& 235 – Technical Writing (5) <input type="checkbox"/> ENGR 202 – Logic Circuits (5) | <ul style="list-style-type: none"> <input type="checkbox"/> ENGR& 214 – Statics (5) <input type="checkbox"/> ENGR& 215 – Dynamics (5) <input type="checkbox"/> ENGR 240 – Applied Numerical Methods/MATLAB (5) <input type="checkbox"/> MATH& 254 – Multivariable Calculus (5) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

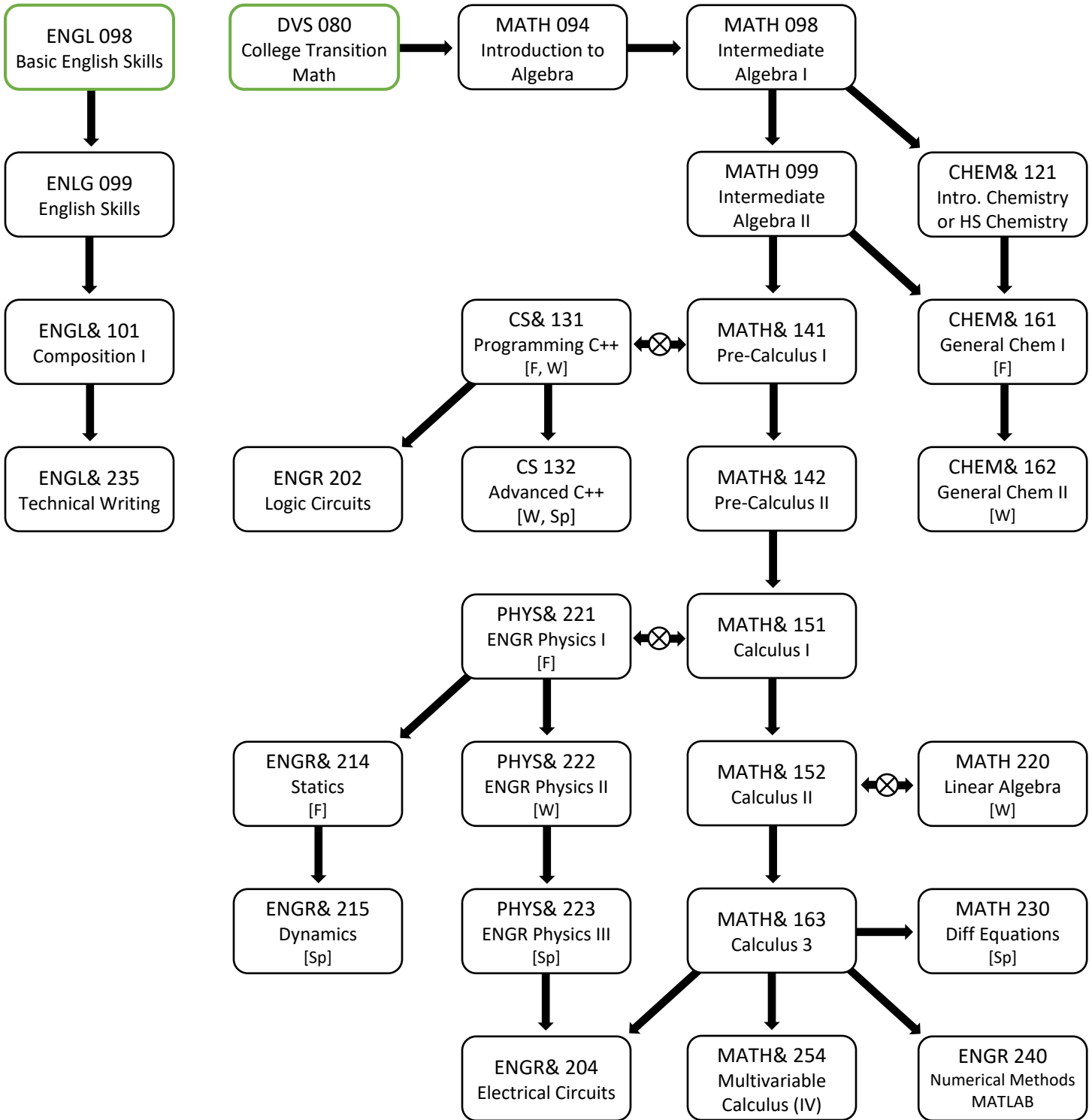
101 TOTAL DEGREE CREDITS

NAME: _____

SID: _____

PRE-ENGINEERING (CEE) PREREQUISITE FLOW CHART

Start by talking with your assigned advisor to determine which courses to take first based on your placement scores.



KEY

STARTING POINT of SEQUENCE

PRE-requisite

CO-requisite

[F = fall W = winter Sp = spring Su = summer]

**Program Courses
WITHOUT PRE-requisites**

Work with your advisor to identify Breadth courses that will meet university and program/major graduation requirements.

NAME: _____

STARTING WITH PLACEMENT AT PRE-CALCULUS CEE QUARTERLY PROGRAM PLAN (YEAR ONE)		
FALL (13 credits)	WINTER (15 credits)	SPRING (15 credits)
CHEM& 161 (5) MATH& 141 (5) ENGR 110 or MCT 110 (3) advised	CHEM& 162 (5) required for semester equivalent MATH& 142 (5) Humanities/Social Science (5)	ENGL& 101 (5) MATH& 151 (5) Humanities/Social Science (5)
QUARTERLY PROGRAM PLAN (YEAR TWO)		
FALL (10 credits)	WINTER (10 credits)	SPRING (15 credits)
MATH& 152 (5) PHYS& 221 (5)	MATH& 163 (5) PHYS& 222 (5)	MATH 230 (5) PHYS& 223 (5) Humanities/Social Science (5)
EXAMPLE QUARTERLY PROGRAM PLAN (YEAR THREE)		
FALL (15 credits)	WINTER (15 credits)	SPRING (16 credits)
CS& 131 (5) ENGR& 214 (5) MATH& 254 (5)	CS 132 (5) ENGR 202 (5) MATH 220 (5)	ENGL& 235 (5) ENGR& 215 (5) ENGR& 204 (6)
STARTING WITH PLACEMENT BELOW PRE-CALCULUS CEE QUARTERLY PROGRAM PLAN (YEAR ONE)		
FALL (13 credits)	WINTER (15 credits)	SPRING (15 credits)
ENGL 099 (5) MATH 094-099 (5) ENGR 110 or MCT 110 (3) strongly recommended	ENGL& 101 (5) MATH 094-099 (5) Humanities/Social Science (5)	MATH& 141 (5) CHEM& 121 (5) if needed r Humanities/Social Science (5)
QUARTERLY PROGRAM PLAN (YEAR TWO)		
FALL (15 credits)	WINTER (15 credits)	SPRING (10 credits)
CHEM& 161 (5) MATH& 142 (5) MATH 094-099 (5)	CHEM& 162 (5) required for semester equivalent MATH& 151 (5) Humanities/Social Science (5)	MATH& 152 (5) PHYS& 114 (5) if recommended by your advisor or instructor
EXAMPLE QUARTERLY PROGRAM PLAN (YEAR THREE)		
FALL (10 credits)	WINTER (10 credits)	SPRING (10 credits)
MATH& 163 (5) PHYS& 221 (5)	MATH 220 (5) PHYS& 222 (5)	MATH 230 (5)HYS& 223 (5)
EXAMPLE QUARTERLY PROGRAM PLAN (YEAR FOUR)		
FALL (15 credits)	WINTER (10 credits)	SPRING (16 credits)
CS& 131 (5) MATH& 254 (5) ENGR& 214 (5)	CS 132 (5) ENGR 202 (5)	ENGL& 235 (5) ENGR& 204 (6) ENGR& 215 (5)

SID: _____

