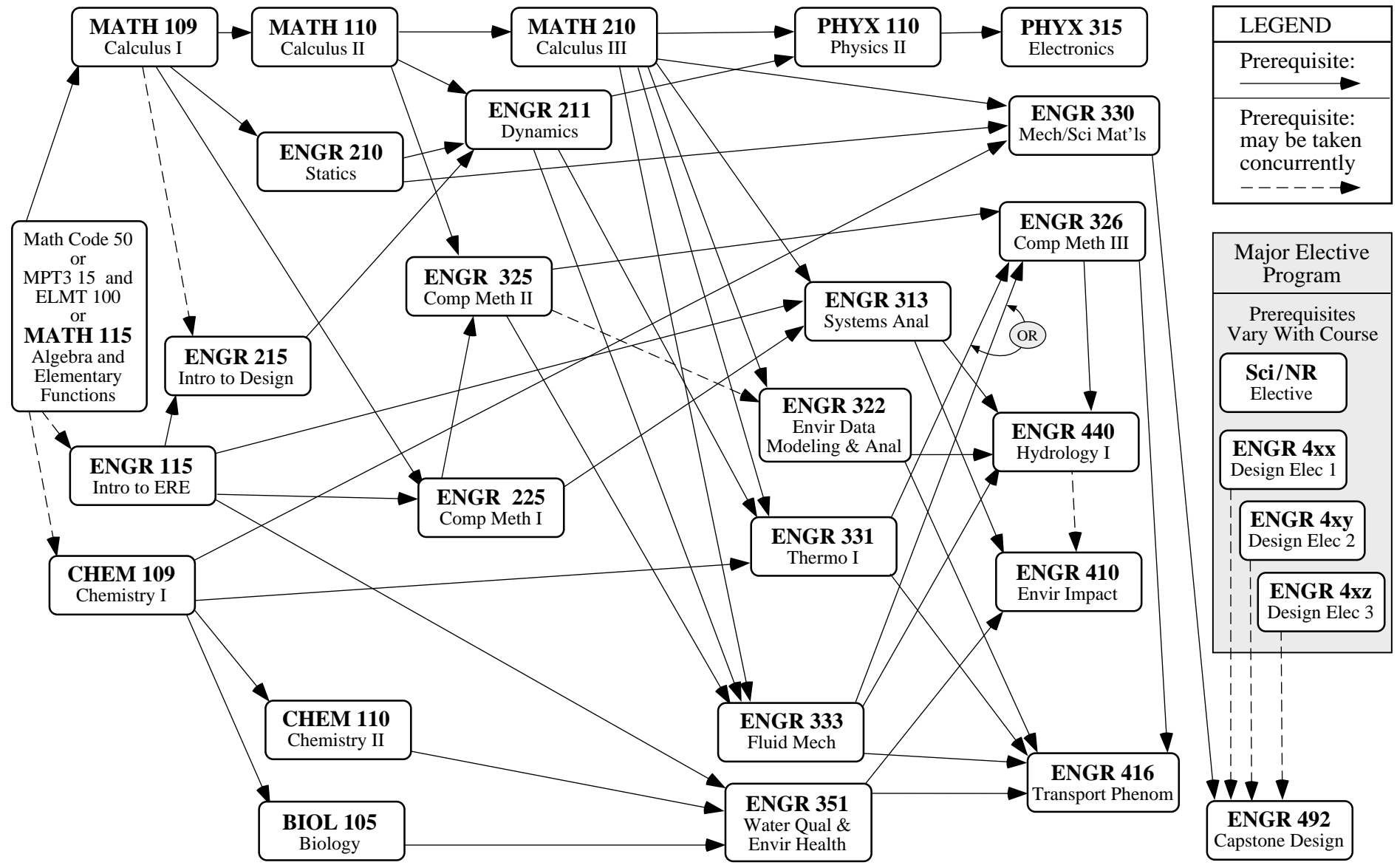


ERE PREREQUISITES FLOW CHART

Revised 11/29/2011 cma



The ERE Department recommends that ERE students: a) submit a Baccalaureate Major Contract (aka Graduation Contract) during their first year at HSU. b) take the FE Exam as soon as possible after completing ENGR 313, 322, 330, 331, 333 and PHYX 315. c) take the GWPE and apply for graduation one year before graduating.

Environmental Resources Engineering

Course Prerequisites

MAJOR REQUIREMENTS

MATH 109	Calculus I	MATH 115 or Math Code 50 or MPT#3 15 and ELMT 100
MATH 110	Calculus II	MATH 109 or Math Code 65
MATH 210	Calculus III	MATH 110
CHEM 109	Chemistry I	MATH 115 (C) or Math Code 40
CHEM 110	Chemistry II	CHEM 109
BIOL 105	Principles of Biology	CHEM 109
PHYX 110	Physics II	MATH 210 (C) ENGR 211
PHYX 315	Electronics	PHYX 110
ENGR 115	Intro to ERE	MATH 115 (C)
ENGR 210	Statics	MATH 109
ENGR 211	Dynamics	MATH 110 ENGR 210 ENGR 215
ENGR 215	Intro to Design	MATH 109 (C) ENGR 115
ENGR 225	Comp Methods I	MATH 109 ENGR 115
ENGR 313	Systems Analysis	MATH 210 ENGR 115 ENGR 225
ENGR 322	Env. Data Modeling & Analysis	MATH 210 ENGR 325 (C)
ENGR 325	Comp Methods II	MATH 110 ENGR 225
ENGR 326	Comp Methods III	ENGR 325 ENGR 331 or ENGR 333
ENGR 330	Mech. Of Materials	CHEM 109 MATH 210 ENGR 210
ENGR 331	Thermodynamics I	CHEM 109 MATH 210 ENGR 211
ENGR 333	Fluid Mechanics	MATH 210 ENGR 211 ENGR 325
ENGR 351	Water Quality & Env. Health	CHEM 110 BIOL 105 ENGR 115
ENGR 410	Environmental Impact	ENGR 313 ENGR 351 ENGR 440 (C)
ENGR 416	Transport Phenomena	ENGR 322 ENGR 326 ENGR 331 ENGR 333 ENGR 351
ENGR 440	Hydrology I	ENGR 313 ENGR 322 ENGR 326 ENGR 333
ENGR 492	Capstone Design	All 300-level courses must be complete; must be within 16 units of graduation

DESIGN ELECTIVES

ENGR 418	Applied Hydraulics	ENGR 326 ENGR 333
ENGR 421	Adv Numerical Methods I	ENGR 313 ENGR 326
ENGR 431	Air Quality Mgt	CHEM 110 ENGR 416
ENGR 435	Solid & Hazardous Waste Mgt	CHEM 110 ENGR 313 (C) ENGR 330 ENGR 333
ENGR 441	Hydrology II	ENGR 440
ENGR 443	Groundwater Systems	ENGR 313 ENGR 325
ENGR 445	Water Resources	ENGR 440
ENGR 448	River Hydraulics	ENGR 351 ENGR 440
ENGR 451	Water/WW Treatment	ENGR 351 ENGR 416 (C)
ENGR 455	Engin Natrl Treatment Systems	BIOL 105 ENGR 115 ENGR 451
ENGR 461	Envir Geotechnology	ENGR 330 ENGR 333
ENGR 466	Earthquake Engr.	ENGR 322 ENGR 325 ENGR 330
ENGR 471	Thermo II	CHEM 110 PHYX 110 ENGR 333
ENGR 473	Building Energy Analysis	ENGR 326 ENGR 333
ENGR 475	Renewable Energy	PHYX 315 ENGR 322 ENGR 331 ENGR 333
ENGR 477	Solar Thermal	ENGR 322 ENGR 331 ENGR 333
ENGR 481	Selected Design	ENGR 322
ENGR 498	Directed Design	May only be taken once for credit.

GRADUATE COURSES

ENGR 501	Systems Analysis I	ENGR 313 ENGR 322 ENGR 326
ENGR 532	Energy, Env. & Society	
ENGR 533	Energy & Climate Change	ENGR 532
ENGR 535	Development Technology	

The following graduate level courses have the same course title and prereqs as the corresponding 400-level course (e.g. ENGR 471/571, ENGR 448/548...):

ENGR 518, 521, 534, 541, 543, 545, 548, 551, 555, 571, 573, 575, 577