

Student A#

Student Name (Last, First MI)

Offered:
F=Fall
S=Spring
M=Summer

Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency	Offered:
English - 6 hours						
		EH 101	3	Freshman Composition I	Placement	FSM
		EH 102	3	Freshman Composition II	EH 101	FSM
Mathematics - 15 hours						
		MA 171	4	Calculus A	MA 113 or MA 115 or Level III Placement	FSM
		MA 172	4	Calculus B	MA 171	FSM
		MA 201	4	Calculus C	MA 172	FSM
		MA 238	3	Applied Differential Equations	Prereq w/Con: MA 201	FSM
Chemistry - 18 hours						
		CH 121	3	General Chemistry I	Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, Coreq: CH 125	FSM
		CH 125	1	General Chemistry Lab I	Coreq: CH 121	FSM
		CH 123	3	General Chemistry II	CH 121, Prereq w/Con: CH 126	FSM
		CH 126	1	General Chemistry Lab II	Coreq: CH 123	FSM
		CH 331	3	Organic Chemistry I	CH 123, CH 126	FSM
		CH 335	1	Organic Chemistry Lab I	Prereq w/Con: CH 331	FSM
		CH 332	3	Organic Chemistry II	CH 331	FSM
		CH 341	3	Physical Chemistry I	CH 123, MA 201, PH 112	F
Biology - 3 hours						
		BYS 311	3	Intro to Molecular Biological Systems	CH 331	S
Physics - 8 hours						
		PH 111	3	General Physics w/Calculus I	MA 171	FSM
		PH 114	1	General Physics Lab I	Prereq w/Con: PH 111	FSM
		PH 112	3	General Physics w/Calculus II	MA 172, PH 111	FSM
		PH 115	1	General Physics Lab II	Prereq w/Con: PH 112	FSM
History, Social & Behavioral Sciences - 9 hours						
		HY	3	History	See History, Social & Behavioral Science (HSBS) List: http://www.uah.edu/eng/center-for-undergrad-eng-edu/student-form : Must have six hour sequence in either HSBS or HFA.	FSM
			3			FSM
			3			FSM
Humanities & Fine Arts - 9 hours						
		EH	3	Literature	See Humanities & Fine Art (HFA) List: http://www.uah.edu/eng/center-for-undergrad-eng-edu/student-forms Must have six hour sequence in either HSBS or HFA.	FSM
			3	Fine Arts		FSM
			3			FSM
Engineering Core - 12 hours						
		CHE 244	3	Intro to Chemical Engineering Systems	CH 123, PH 111, Prereq w/Con: CHE 198	S
		CHE 294	3	Nature & Properties of Materials	CH 121, PH 111	FM
		EE 213	3	Electrical Circuit Analysis I	PH 112, Prereq w/Con: MA 238 & (MA 244 or CHE 244 or MAE 285)	FSM
		MAE 271	3	Statics	PH 111, Prereq w/Con: MA 201	FSM
Chemical Engineering Option - 49 hours						
		CHE 197	2	Intro to Chemical Engineering Processes	Level II Math Placement or Coreq: MA 112	F
		CHE 198	2	Computational Tools for Chemical Engineers	CHE 197, Prereq w/Con: MA 113	S
		CHE 295	1	Nature & Properties of Materials Lab	Prereq w/Con: CHE 294	FM
		CHE 342	3	Transport Phenomena	CHE 244, Prereq w/Con: MAE 310	S
		CHE 344	3	Chemical Engineering Thermodynamics	CHE 244, CH 341	SM
		MAE 310	3	Fluid Mechanics I	MA 238, MAE/CE 271 & (MAE 285 or CPE 112 or CHE 197)	FSM
		CHE 347	3	Quantitative Modeling for Chemical Engrs	CHE 197, CHE 244, MA 238	FM
		CHE 439	3	Unit Operations Lab I	CHE 295, Prereq w/Con: CHE 441, CHE 446	F
		CHE 440	2	Unit Operations Lab II	CHE 439, CHE 441, CHE 443	S
		CHE 441	3	Chemical Kinetics & Reactor Design	CHE 344, CHE 347	F
		CHE 443	3	Mass Transfer Operations	CHE 342, CHE 344, MAE 310	F
		CHE 445	3	Chemical Process Control	CHE 441	S
		CHE 446	3	Analysis & Design of Transport Equipment	CHE 342, Prereq w/Con: CHE 443	F
		CHE 448	3	Chemical Engineering Design	CHE 441, CHE 443, CHE 446, Prereq w/Con: CHE 445	S
		CHE 485	3	Process Safety and Toxicology	Prereq w/Con: CHE 448	S
		CH 361	3	General Biochemistry I	BYS 311, CH 332, CH 335	FSM
		CHE 460	3	Introduction to Bioprocess Engineering	CH 361	F
		CHE 461	3	Bioseparations	CHE 460	S
		CH 440	3	Polymer Synthesis & Characterization	CH 331	F
		CHE 494	3	Applied Materials Engineering	CHE 294, CH 342 or CH 348	S
		CHE 495	3	Polymer Engineering	CH 341, CH 440	F

All prerequisite classes must be completed with a "C" or higher grade.

The Catalog is the final authority for all degree requirements.

Updated: 9/5/2012

Chemical Engineering Program 2012/2013 (129 Hours)

UAHuntsville

Select One Concentration
Micro-
Engineering
Biotechnology