

CHEMICAL METHODS, A.S.

(Fall 2017-Summer 2018)

CHEMICAL METHODS CORE REQUIREMENTS (37 credits)

*Note: grades of C- or better required in CHM courses/2.0 CHM GPA

- _____ 4 CHM 11500 General Chemistry
- _____ 4 CHM 11600 General Chemistry
- _____ 3 CHM 25500 Organic Chemistry
- _____ 1 CHM 25400 Organic Chemistry Lab
- _____ 3 CHM 25800 Organic Chemistry
- _____ 1 CHM 25600 Organic Chemistry Lab
- _____ 4 CHM 32100 Analytical Chemistry I
- _____ 5/6 MA 15900 Precalculus **OR**
MA 15300 and MA 15400 College Algebra/Trigonometry
- _____ 4 MA 22700 Calculus for Technology I
- _____ 4 PHYS 21800 General Physics
- _____ 4 PHYS 21900 General Physics II

WRITING AND COMMUNICATION

- _____ 3 ENG W131 Elementary Composition I
- _____ 3 ENG W233 2nd Semester Writing Course
- _____ 3 COM 11400 Fundament of Speech

GENERAL EDUCATION REQUIREMENTS (30 Credits)

*Note: grades of C- or higher required in Gen Ed/2.0 GPA

**Up to 6 credits in Gen Ed GA1 to GB7 and 3 credits GCAP (C8) may originate in major discipline—see advisor for more information.

- _____ 3 GA1 Category A1 -- Written Communication (See Bulletin or myBLUEprint for **General Education** courses)
- _____ 3 GA2 Category A2 -- Speaking and Listening
- _____ 3 GA3 Category A3 -- Quantitative Reasoning
- _____ 3 GB4 Category B4 -- Scientific Ways of Knowing
- _____ 3 GB5 Category B5 -- Social & Behavioral Ways of Knowing
- _____ 3 GB6 Category B6 -- Humanistic and Artistic Ways of Knowing
- _____ 3 GB7/71 Category B7 or B71 -- Interdisciplinary or Creative Ways of Knowing
- _____ 9 Additional Credits -- Category A or B General Education courses _____

IPFW Residency Requirements: _____ 32 credits at 200 level or above at IPFW _____ with 15 of 32 credits at 300-400 in major
A.S. Requirements: _____ 60 credits _____ 2.0 GPA Degree/Major _____ C- or above in Major/General Education Courses

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PLAN

(Fall 2017-Summer 2018)

Term:		Year:		Term:		Year: 20	
Course No.	Course Title	Pre-Reqs	Crs.	Course No.	Course Title	Pre-Reqs	Crs.
ENG W131 (GA1)	Reading, Writing, & Inquiry	Self-place or ENG W129 (c- or above)	3	ENG W233 (Gen Ed A/B)	Intermed Expos Writing	ENG W131 (C- or above)	3
MA 15900 (GA3)	Pre-calculus	MA 11300	5	CHM 11600	General Chemistry	CHM 115 (C- or above); MA 15300, 16500, 22700, or 22900	4
CHM 11500 (GB4)	General Chemistry	H.S. CHM or CHM 11100 (C- or above); MA 15400, 22700, 22900	4	MA 22700	Calculus for Tech I	MA 15900 or 15400 w/ C- or higher	4
COM 11400 (GA2)	Fundament of Speech		3	GB5	Gen Ed Soc/Behavior		3
Total Semester Credit Hours			15	Total Semester Credit Hours			14

Term:		Year: 20		Term:		Year: 20	
Course No.	Course Title	Pre-Reqs	Crs.	Course No.	Course Title	Pre-Reqs	Crs.
CHM 25500	Organic Chemistry	CHM 11600	3	CHM 25600	Organic Chemistry	CHM 25500	3
CHM 25400	Organic Chemistry Lab	C: CHM 25500	1	CHM 25800	Organic Chemistry Lab	CHM 25400; C: CHM 25600	1
PHYS 21800	General Physics	MA 15300	4	PHYS 21900	General Physics II	PHYS 21800 with C- or better	4
GB6	Gen Ed Hum/Artistic		3	@ @ Elective	Free elective		3
GB7	Gen Ed Creat/Interdisc		3	Gen Ed A/B	Gen Ed A or B course		3
Total Semester Credit Hours			14	Total Semester Credit Hours			14

Term:		Year: 20		Term:		Year: 20	
Course No.	Course Title	Pre-Reqs	Crs.	Course No.	Course Title	Pre-Reqs	Crs.
CHM 32100	Analytical Chemistry I	1 year of organic chemistry	4				
Total Semester Credit Hours			4	Total Semester Credit Hours			

√ = See IPFW Bulletin or myBLUEprint for additional course prerequisites

Summer Courses:

**60 credits required for Associate of Science degree
2.0 GPA required for Associate of Science degree/major**