

COMPARISON GUIDE TO IPFW ENGINEERING, COMPUTER SCIENCE, AND ENGINEERING TECHNOLOGY PROGRAMS

(THIS SHEET IS LIMITED TO DEGREES THAT ARE ACCREDITED BY ABET *)

Departments/Programs			Credit Hours Required for Graduation from IPFW					
Civil and Mechanical Engineering		Degree	Math (highest)	Science	Core	Technical Electives	General Education	Total
CME	Civil Engineering (CE)	BSCE	21 (MA 363 †)	17	58	12	15 ‡	123
	Mechanical Engineering (ME)	BSME	18 (MA 363 †)	14	61	12	15 ‡	120
Electrical and Computer Engineering		Degree	Math (highest)	Science	Core	Technical Electives	General Education	Total
ECE	Computer Engineering (CmpE)	BSCmpE	21 (MA 363 †)	14	57	13	15 ‡	120
	Electrical Engineering (EE)	BSEE	18 (MA 363 †)	14	62	12	15 ‡	121
Computer Science		Degree	Math (highest)	Science	Core	Technical Electives	General Education	Total
CS	Computer Science (CS)	BS	17 (STAT 511 †)	12	39	19	33	120
Manufacturing & Construction Engineering Technology ...		Degree	Math (highest)	Science	Core Technical	Technical Electives	General Education	Total
MCET	Construction Engineering Technology (CNET)	BS	12 (MA 227 †)	4	76	6	24‡	120
	Industrial Engineering Technology (IET)	AS	8 (IET 205 †)	4	33	0	15‡	60
		BS	12 (MA 227 †)	11	70	6	21‡	120
	Mechanical Engineering Technology (MET)	AS	8 (IET 205 †)	7	30	0	15‡	60
		BS	15 (MA 227 †)	11	67	9	21‡	120
Computer, Electrical, and Information Technology		Degree	Math (highest)	Science	Core Technical	Technical Electives	General Education	Total
CEIT	Electrical Engineering Technology (EET)	AS	9 (MA 227 †)	7	29	0	15‡	60
		BS	15 (MA 228 †)	7	62	15	21‡	120
	Computer Engineering Technology (CpET)	BS	15 (MA 228 †)	7	63	14	21‡	120

* For more information about the Accreditation Board for Engineering, Technology, and Computer Science, Visit <http://www.abet.org>

- † MA 227 – Calculus for Technology I
- † MA 228 – Calculus for Technology II
- † MA 321 – Advanced Technical Mathematics
- † MA 363 – Differential Equations
- † STAT 511 – Statistical Methods
- † STAT 301- Elementary Statistical Methods.

‡ The remainder of the IPFW 33 required General Education credits are included in the Math, Science, and Core components of the curriculum.

INTERPRETATION OF MATH PLACEMENT RESULTS FOR ENGINEERING AND CS MAJORS

COURSE	MA 165	MA 154	MA 153	MA 113	MA 109
SCORE	excellent	good	slight deficiency	moderate deficiency	severe deficiency
COMMENT	ideal placement	good placement	marginal placement	poor placement	poor placement
TIMETABLE	count towards degree	1 semester of remedial math	2 semesters of remedial math	2 or 3 semesters of remedial math	3 or 4 semesters of remedial math
RECOMMENDATION	Engineering or CS	Engineering or CS	2+3 Program ⁽¹⁾ , CS, or Technology	Technology	Technology

(1) The 2+3 program is specifically designed to increase the options and success of students with this math placement who are interested in Engineering. Students start with technology, general education and mathematics classes and progress to engineering classes over the first two years. At the end of two years students can take two more years to complete a BS in Engineering Technology or three additional years to complete a BS in Engineering. In many cases students also complete an AS in Engineering Technology.