

COMPARISON GUIDE TO IPFW ENGINEERING, COMPUTER SCIENCE, AND TECHNOLOGY PROGRAMS
UNLESS OTHERWISE INDICATED THE DEGREES LISTED ARE ABET (*) ACCREDITED

| Departments/Programs | | | Credit Hours Required for Graduation from IPFW | | | | | | |
|--|---|-----------------------------|--|---------------|-------------------|---------------------|-------------------|-------|-----|
| Engineering | | Degree | Math (highest) | Science | Engineering | Technical Electives | General Education | Total | |
| | ENGR | Electrical Engineering (EE) | BSEE | 21 (MA 363 †) | 14 | 54 | 12 | 24 | 125 |
| | | Mechanical Engineering (ME) | BSME | 18 (MA 363 †) | 14 | 58 | 12 | 24 | 126 |
| | | Computer Engineering (CmpE) | BSCmpE | 21 (MA 363 †) | 14 | 54 | 12 | 24 | 125 |
| | | Civil Engineering (CE) (‡) | BSCE | 18 (MA 363 †) | 14 | 59 | 12 | 24 | 127 |
| Computer Science | | Degree | Math (highest) | Science | Core | Technical Electives | General Education | Total | |
| CS | Computer Science (CS) | BSCS | 17 (STAT 511†) | 12 | 36 | 15 | 36 | 124 | |
| Civil and Architectural Engineering Technology | | Degree | Math (highest) | Science | Core Technical | Technical Electives | General Education | Total | |
| CAET | Architectural Engineering Technology (ARET) | AS | 9 (MA 227 †) | 8 | 43 | 0 | 6 | 66 | |
| | Civil Engineering Technology (CET) | AS | 9 (MA 227 †) | 8 | 40 | 0 | 9 | 66 | |
| | Construction Engineering Technology (CNET) | BS | 12 (MA 228 †) | 14 | 74 | 9 | 24 | 133 | |
| Electrical and Computer Engineering Technology | | Degree | Math (highest) | Science | Core Technical | Technical Electives | General Education | Total | |
| ECET | Electrical Engineering Technology (EET) | AS | 13 (MA 228 †) | 4 | 37 | 4 | 6 | 64 | |
| | | BS | 16 (MA 321 †) | 11 | 55 | 21 | 24 | 127 | |
| Mechanical and Industrial Engineering Technology | | Degree | Math (highest) | Science | Technical Courses | Communication | General Education | Total | |
| MIET | Industrial Engineering Technology (IET) | AS | 8 (STAT 301†) | 8 | 36 | 9 | 3 | 64 | |
| | | BS | 12 (MA 227†) | 11 | 75 | 15 | 12 | 128 | |
| | Mechanical Engineering Technology (MET) | AS | 8 (STAT 301†) | 8 | 37 | 9 | 3 | 65 | |
| | | BS | 15 (MA 228 †) | 11 | 79 | 15 | 12 | 132 | |

- (*) For more information about the Accreditation Board for Engineering and Technology, visit: <http://www.abet.org>
- (‡) The civil engineering program has been recently implemented (2006). The projected date for having the civil engineering program reviewed by ABET is fall of 2009. ABET accreditation requires having at least one student complete a degree program.

† 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.

[All EE & CmpE graduates also receive a minor in Mathematics]

INTERPRETATION OF MATH PLACEMENT RESULTS FOR ENGINEERING AND CS MAJORS

| COURSE | MA 165 | MA 159 or MA 153/154 | MA 113 | MA 109 |
|----------------|----------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| SCORE | excellent | slight deficiency | moderate deficiency | severe deficiency |
| COMMENT | ideal placement | good placement | fair placement | poor placement |
| TIMETABLE | count towards degree | 1 or 2 semesters of remedial math | 2 or 3 semesters of remedial math | 3 or 4 semesters of remedial math |
| RECOMMENDATION | Engineering or CS | Engineering, CS, or Technology | Technology | Technology |