

Michigan Technological University

Minor in Statistics

Program Code SSTM, Academic Year 2024-25

Department of Mathematical Sciences

Total Credits Required: 18

Select one (1) course in probability

- EE 3180 Introduction to Probability and Random Signal Analysis (3) *Prereqs: EE 3160*
- MA 3720 Probability (3) *Prereqs: MA1121 or MA1160 or MA1161*

Required course in statistical computing

- MA 3740 Statistical Programming and Analysis (3) *Prereqs: MA2710 or MA2720 or MA3710 or MA3715*

Select one (1) course in statistics

- MA 2710 Intro to Statistical Analysis (3) *Prereqs: MA1121 or MA1135 or MA1160 or MA1161*
- MA 2720 Statistical Methods (4) *Prereqs: MA1020 or MA1030 or MA1120 or MA1031 or MA1032*
- MA 3710 Engineering Statistics (3) *Prereqs: MA2160 or MA3160*
- MA 3715 Biostatistics (3) *Prereqs: MA1121 or MA1135 or MA1160 or MA1161 or MA2160 or MA3160*

Select three (3) advanced elective courses

- MA 4710 Regression Analysis (3) *Prereqs: MA2710 or MA2720 or MA3710 or MA3715 or MA5701*
- MA 4720 Design and Analysis of Experiments (3) *Prereqs: MA2710 or MA2720 or MA3710 or MA3715 or MA5701*
- MA 4730 Nonparametric Statistics (3) *Prereqs: MA2710 or MA2720 or MA3710 or MA3715*
- MA 4760 Mathematical Statistics I (3) *Prereqs: MA3720 or EE3180*
- MA 4770 Mathematical Statistics II (3) *Prereqs: MA4760*
- MA 4780 Time Series Analysis and Forecasting (3) *Prereqs: (MA2710 or MA2720 or MA3710 or MA3715) and (MA3720 or EE3180)*
- MA 4790 Predictive Modeling (3) *Prereqs: MA3740 or MA4710 or MA4720 or MA4780*