



## **Data Science, Analytics and Engineering (DSAE) MS Degrees**

We have eight concentrations within the DSAE MS program. We are seeing many applicants to these concentrations that do not have the appropriate background for the concentration that they applied to. Please use this guide to inform your discussions with students interested in this program to ensure they are being reviewed by the correct program, and increase their likelihood of admission.

# Applicant tips

Students should apply to the concentration that best matches their bachelor's degree.

Students applying to the CMD and BML concentrations **must** have a very high level of math in their bachelor's degree, higher than the average engineering bachelor's degree. If students ask you about these concentrations, start off by asking them what their highest math class was.

Students should apply to multiple programs at ASU if they are not sure if they are admissible to their top choice.

- Note that students do not need to apply to multiple programs within one school (such as multiple programs within SCAI).

# DSAE Concentrations (page one of two)

## Computing and Decision Analytics (CDA)- SCAI

Applicable bachelor's degrees:

- Computer Science
- Computer Engineering

Specific notes

- This concentration is heavy in CSE courses, students should have a CSE background

## Bayesian Machine Learning (BML)- ECEE/SoMSS

Applicable bachelor's degrees:

- Math
- Statistics
- Data Science
- Data Analytics

Specific notes

- This concentration requires an **extremely high level of math**. Students **MUST** have a math background and extensive math courses in their bachelor's degree

## Electrical Engineering (EE)- ECEE

Applicable bachelor's degrees:

- Electrical Engineering
- Computer Engineering
- Physics

Specific notes

- This concentration is heavy in EEE courses, students should have an EEE background

## Computational Models and Data (CMD)- ECEE/SoMSS

Applicable bachelor's degrees:

- Math
- Statistics
- Data Science
- Data Analytics

Specific notes

- This concentration requires an **extremely high level of math**. Students **MUST** have a math background and extensive math courses in their bachelor's degree

# DSAE Concentrations (page two of two)

## Materials Science and Engineering (MSE)- SEMTE

Applicable bachelor's degrees:

- Materials Science, computing, engineering, statistics, chemistry, physics, electrical engineering, operations research, or related field

Specific notes

- This concentration is heavy in MSE courses, students should have an engineering or mathematics background

## Sustainable Engineering and the Built Environment (SEBE)- SEBE

Applicable bachelor's degrees:

- Civil Engineering
- Construction Engineering

Specific notes

- This concentration is heavy in CEE/CON courses, students should have a CEE/CON background

## Mechanical and Aerospace Engineering (MAE)- SEMTE

Applicable bachelor's degrees:

- Mechanical engineering, aerospace engineering, or a related field

Specific notes

- This concentration is heavy in MAE courses, students should have a mechanical or aerospace background

## Human Centered Applications (HCA)- TPS

Applicable bachelor's degrees:

- User Experience
- Human Centered Applications
- Systems Engineering
- Engineering

Specific notes

- This concentration is heavy in HSE courses, which require statistics and data analysis