

General Engineering (GEEN)

GEEN 1201 Engineering as a Career **2 SCH (1-3)**

Overview of the history of engineering, its disciplines and professional practice with emphasis on social responsibility and ethical behavior. Introduces each engineering discipline using three-week modules. It also provides basic skills, tools and techniques applied to problem solving, teamwork and communication necessary for academic and professional success.

GEEN 1311 AI Tools for Engineering **3 SCH (3-0)**

Introduction to AI concepts and modalities for engineering; large language model-based chat systems and prompt engineering; essential tools including Google AI Studio, OpenAI, Anthropic Claude; image and video generation; HuggingFace, GitHub, and open-source resources; Introduction to Python programming; Introduction to data structure and control flow; ethical considerations in fairness, transparency, and privacy; a final project that emphasizes applications relevant to engineering.