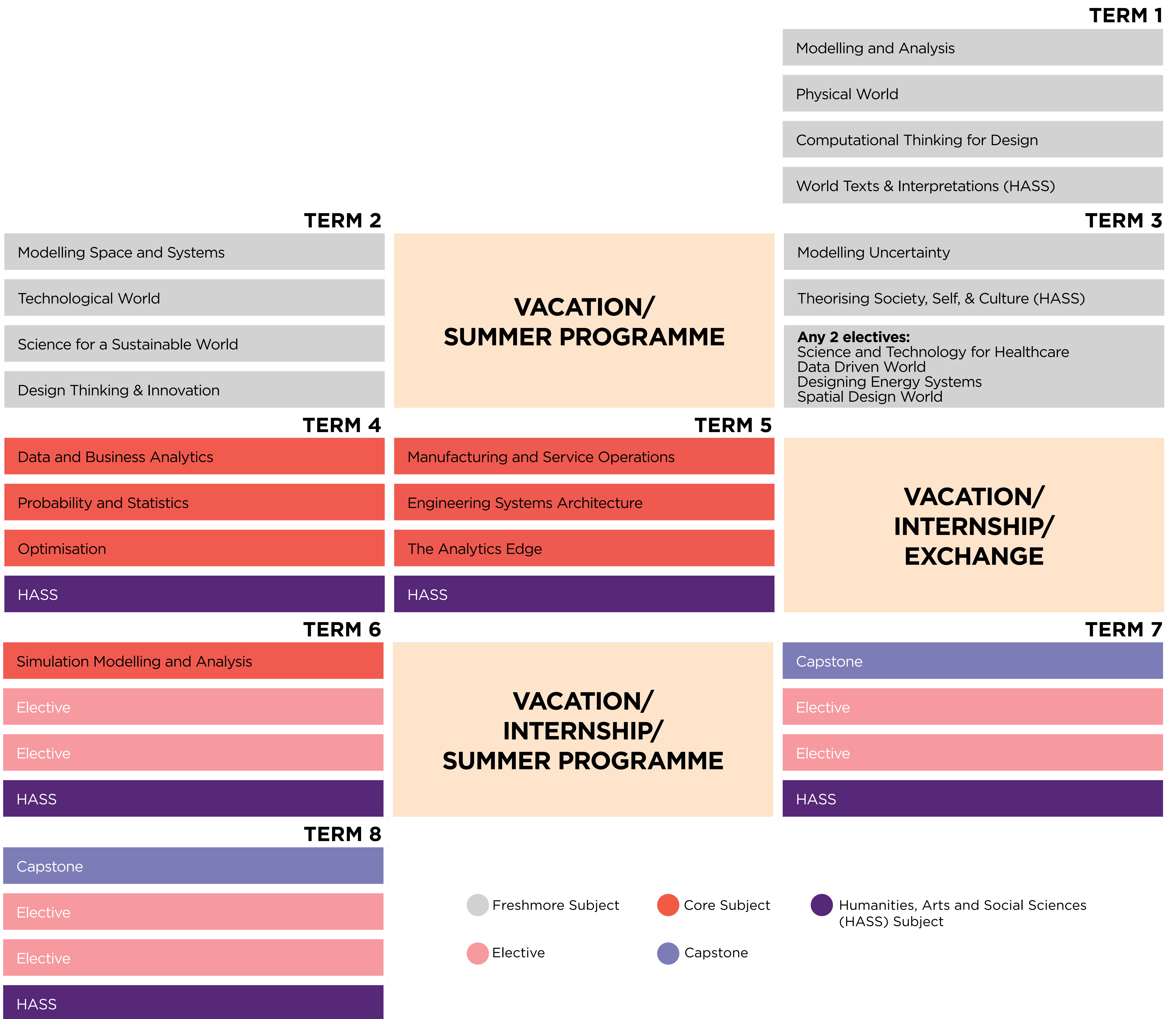


# ENGINEERING SYSTEMS AND DESIGN (ESD)

JAN - APR

MAY - AUG

SEP - DEC



## CORE SUBJECTS

The seven ESD core subjects that begin in Term 4 will prepare you to be future systems architects and leaders by learning to design, analyse and optimise engineering systems.

## ELECTIVES

- Advanced Topics in Optimisation\*
- Advanced Topics in Stochastic Modelling\*
- Airport Systems Modelling and Simulation
- Airport Systems Planning and Design
- Derivative Pricing and Risk Management
- Energy Systems and Management
- Equity Valuation
- Financial Systems Design
- Fundamentals of Investing
- Game Theory
- Investment Science
- Networked Life
- Statistical and Machine Learning
- Supply Chain Digitalisation and Design
- Supply Chain Management
- Sustainable Engineering
- Urban Transportation
- Water Resources Management

\*half-term subject

## CAPSTONE

In Terms 7 and 8, the capstone is a culminating project that allows students to use the skills they have mastered in ESD in a real world industry or research project. The capstone projects focus on interdisciplinary applications, solved by a team of students chosen appropriately from different majors.