



Space Entrepreneurship Program (SEP)

Area of Study	Innovation in the Advanced Manufacturing and Logistics industries
Supervisor	Problem Sponsor
Topic Coordinator	Scott Schneider
Study Period	Study Period 1, 2

What is the **SEP**?

The SEP is offered as a Work Integrated Learning Topic requiring you to apply interdisciplinary learning in teams of approximately 5 members where each team will propose a solution to a challenge facing the space sector.

During the program you are to engage with a Supervisor who is an expert in a particular field, referred to as the **Problem Sponsor**.

By the end of the SEP, you are expected to have made significant steps towards demonstrating:

- an interdisciplinary awareness of both the significance of and the dynamics within space activities
- a practical understanding of how economics, law and management apply to space activities
- positive relationships with actors in the space sector (such as with your student peers, the visiting experts and the Problem Sponsors).

The current learning outcomes are found in part 6 “Learning Outcomes” within this handout.

Both the in-class content and the Problem Sponsors’ challenges within the SEP are designed to equip you with the tools to address space-related matters through considering three core **themes**:

- space economics and finance
- space law and governance
- management and technologies of space activities.

The SEP delivers class instruction on the three themes by following and encouraging you to employ three work-style **practices**:

Principle-based problem solving

- critical and creative thinking
- real-world observations and impacts.

Learning Objectives

By committing to the three practices, students who complete the SEP demonstrate a capability to:

1. work in interdisciplinary, self-organised teams to develop, follow, adapt and complete project plans and to meet tight deadlines
2. analyse how decisions are made in the space sector and to consider the consequences of those decisions locally and on larger scales
3. propose best practices to the design, execution and governance of space activities with learnings from the fields of economics, law and project management
4. apply sound economic principles when considering space activities, whether in the context of government, research, business or project management
5. describe and apply the purpose of law in a proper context of space activities, considering moral and legal principles
6. propose novel and plausible solutions to existing or anticipated challenges in space management, law and governance and apply practical process to the legal realities of space activities (such as contracting and insurance)
7. evaluate the benefits or harms due to previous, current and proposed laws concerning space activities, and how those benefits or harms came to be
8. understand how humans interact with space through technology and culture and why this is relevant to next generation space activities
9. determine the characteristics of, motivations for and requirements of space-derived services
10. apply the nature of the outer space environment and the capabilities of human efforts when considering how space activities can contribute the most benefit to society.

Indicative **Syllabus**

Approximately half of the instructional sessions during the SEP are delivered from visiting experts within the space sector.

Accordingly, the exact session breakdown is prone to vary up to, and perhaps even after, the SEP's start date. This depends on the availability of the visiting experts.

At least one hour of each week (from weeks 1 to 9) is reserved for working on the Problem Statement.

Week 1	Introduction to Space and the Problem Statement
Week 2	Space and the Economy
Week 3	NewSpace
Week 4	Financing and Risk
Week 5	Missions
Week 6	International Law and Military Applications
Week 7	Policy and Regulation
Week 8	Space and Society
Week 9	Space and Leadership
Week 9	Final Presentations
Week 10	Final Presentations

How will the **SEP** topic be assessed?

Overview: There are no formal examinations for the SEP. Assessment is based on the deliverables identified in Table 2.

Students are expected to work in teams throughout the program so each team produces a Final Report and a Final Presentation by the final week. The exact due date within the week identified in Table 2 will be communicated to students once the SEP has commenced.

Type	Deliverable	Details	Weight (%)	Due
Individual	Essay	Students must analyse their own, or choose from a suggested, essay topic to demonstrate the nexus between economics, law and technology in space affairs. This exercise aims to ensure the student has command of the primary themes of the SEP which can later be considered in proposing a solution to the problem posed by the Problem Sponsor.	20	Week 3
Team	Applied plan	Students must develop a detailed plan based on a given space-enabled scenario. The plan must demonstrate the interdisciplinary factors which justify and will enable the scenario including consideration of market and government incentives, technological plausibility, financing and safety risks and how the scenario will unlock benefit or value to society.	10	Week 5
Team	Final Report	Teams must submit a written document of no more than 10 pages of substantive content (i.e. page count excludes title, contents or reference pages etc.) which combines all work the teams considered during the semester. It should include the problem statement, the team's methodology, obstacles faced and how they overcome them, the technical aspects of the problem and potential solution and a path forward.	35	Week 10
Team	Final Presentation	Teams must present the lessons, findings and paths forward from their final report in a creative and convincing manner to effectively communicate their work to the Problem Sponsor and to relevant stakeholders.	35	Week 10

Find out more

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