

# M.S. in Space Operations

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**Students will:**

- Evaluate key elements within the space domain and its operational ecosystem.
- Apply STEM principles and theory necessary for conducting spaceflight operations.
- Create strategies for developing space capability and executing spaceflight missions.
- Demonstrate the requisite professional skills desired by large multinational agencies.
- Explain the purpose of empirical research and the role of statistics.
- Correctly apply to data statistical tests for between-subjects designs including t-tests, one-way analysis of variance, and factorial analysis of variance.
- Evaluate alternate investigation methods, determine when to use quantitative, qualitative or mixed methods, and create sample research questions that quantitative, qualitative and mixed methods can address.
- Apply different research designs with appropriate consideration of relative strengths and weaknesses, specific tools and techniques of data collection, assumptions of use, and acceptable analytic procedures.