

## VICEROY Scholarship Courses

- Take at least three courses chosen from four areas: data science, strategic foreign languages, cybersecurity, and electromagnetic spectrum. No more than two courses can be chosen from any one area. The courses eligible for this program are below.

### **Data Science, including Artificial Intelligence and Machine Learning:**

- CSCI 4540, Digital Forensics and Machine Learning
- CSCI 3430, Artificial Intelligence
- QUAN 4630, Business Analytics
- STAT 4020, Statistics and Research Methodology
- MATH 3250, Introduction to Statistics and Data Analysis
- MATH 4251, Probability and Statistics I
- MATH 4252, Probability and Statistics II
- MATH 4420, Introduction to the Theory of Graphs
- SECR 6600, Research Design and Writing for Intelligence and Security Studies

### **Foreign Language:**

- ARAB 1001, Elementary Modern Standard Arabic I
- ARAB 1002, Elementary Modern Standard Arabic II
- ARAB 2001, Intermediate Modern Standard Arabic I
- ARAB 2002, Intermediate Modern Standard Arabic II
- CHNS 1001, Elementary Chinese I
- CHNS 1002, Elementary Chinese II
- CHNS 2001, Intermediate Chinese I
- CHNS 2002, Intermediate Chinese II
- Work in progress: Russian from MSU

### **Cybersecurity:**

- CYBR 2600, Introduction to Networking and Cyber Security
- CYBR 3100, Introduction to Defensive Cyber Operations
- CYBR 3200, Cyber Network Defense and Counter Measures
- CYBR 4400, Digital Forensics
- CSCI 4531, Malware Analysis and Reverse Engineering

### **Electromagnetic Spectrum:**

- PHYS 4051, Electromagnetic Theory I
- PHYS 4052, Electromagnetic Theory II
- PHYS 4010, Advanced Laboratory (with optics/lasers focus)