

Furman University Study Away Program: Academic, Environmental, Physical & Health Expectations

Program: Breaking Codes and Winning Wars Engaging in the Mathematics and History of World Wars and Code Breaking
Dates: May 13- June 3, 2020

Request accommodations through the Student Office for Accessibility Resources (SOAR)

Course Description: MXP 200 Breaking Codes and Winning War. Examination of how cryptology (the science of making and breaking codes and ciphers) played a pivotal role during the world wars. Emphasis on analyzing the German Enigma machine used by the Nazis during World War II and learning the mathematics used to defeat this machine. Investigation of how cryptologists worked during these wars and how their efforts affected political and military decisions. Planned trips to museums and historical locations in Washington D.C. and London, England, including Bletchley Park, where the allied codebreakers worked during World War II. MayX. 2 credits.

Program Description: Students will explore how cryptology (the science of making and breaking codes and ciphers) played a pivotal role during the world wars. During classes, we will learn how to make and break several historical ciphers, including the Enigma cipher machine that was used by the Germans during World War II. This process will require us to dive into mathematical ideas from combinatorics, probability, and permutation theory. In addition, students will work in groups to make an in-depth examination of a topic of their choice in world war cryptology.

| | Frequency | | | | | | |
|-----------------------------------|-----------|--------|-----------|-------|----------|-------------|----------|
| ACADEMIC REQUIREMENTS | Never | Seldom | Sometimes | Often | Optional | Recommended | Required |
| Course work in a foreign language | X | | | | | | |
| Course work in English | | | | X | | | X |
| Use of laptop | | | | X | | | X |
| Use of smart device | X | | | | | | |
| Traditional Classroom | | | | X | | | X |
| Indoor Course Work | | | | X | | | X |
| Outdoor Course Work | | | X | | | | X |
| Group Work | | | | X | | | X |
| Presentations | | | X | | | | X |
| Interactions with local residents | | | X | | | | |
| Field Work | X | | | | | | |
| Internship | X | | | | | | |
| Research | | | X | | | | X |
| Comments: | | | | | | | |

| | Frequency | | | | |
|------------------------------|-----------|--------|-----------|---------|--------|
| HEALTH & DIET | Never | Seldom | Sometimes | Usually | Always |
| Vegetarian Options | | | | X | |
| Vegan Options | | | | X | |
| Food Allergy Accommodations | | | | X | |
| Group Meals | | | X | | |
| Cooking for oneself | | | X | | |
| Host family prepares meals | X | | | | |
| Healthcare easily accessible | | | | | X |
| Comments: | | | | | |

| | Frequency | | | | |
|--------------------------------|-----------|--------|-----------|---------|--------|
| STUDY AWAY ENVIRONMENT | Never | Seldom | Sometimes | Usually | Always |
| Foreign Language Environment | X | | | | |
| Mountainous | X | | | | |
| Tropical | X | | | | |
| Desert | X | | | | |
| Urban | | | | X | |
| Rural | | X | | | |
| High Elevation | | X | | | |
| Dusty | | X | | | |
| Air Pollution | | X | | | |
| Recent Terrorism | | X | | | |
| Mosquito Borne Risk of Illness | X | | | | |
| Earthquakes | X | | | | |
| Other Natural Disaster | X | | | | |
| Comments: | | | | | |

| | Frequency | | | | |
|-----------------------------|-----------|--------|-----------|-------|--------|
| LIVING ARRANGEMENTS | Never | Seldom | Sometimes | Often | Always |
| Host Family | X | | | | |
| Roommate | | | | | X |
| Shared Apartment | | | X | | |
| Dormitory | | | X | | |
| Camping | X | | | | |
| Hotel | | | X | | |
| Cell phone signal available | | | | X | |
| Internet signal available | | | X | | |
| Comments: | | | | | |

| | Frequency | | | | |
|------------------------------|-----------|--------|-----------|-------|-------|
| PHYSICAL EXPECTATIONS | Never | Seldom | Sometimes | Often | Daily |
| Lifting luggage | | | X | | |
| Carrying luggage upstairs | | | X | | |
| Carrying equipment | | | X | | |
| Carrying groceries | | | X | | |
| Standing 30+ minutes | | | | X | |
| Walking 1+ miles | | | | X | |
| Hiking (easy) | | | | X | |
| Hiking (strenuous) | | | X | | |
| Sitting 5+ hours | | | X | | |
| Use of public transportation | | | | | X |
| Flat terrain | | | | X | |
| Hilly terrain | | | X | | |
| Stairs | | | X | | |
| Comments: | | | | | |

| | Frequency | | | | |
|----------------------|-----------|--------|-------|----------|----------|
| WATER ACTIVITIES | Never | Seldom | Often | Optional | Required |
| Swimming | X | | | | |
| Snorkeling | X | | | | |
| SCUBA | X | | | | |
| Boating (speed boat) | X | | | | |
| Rowing | X | | | | |
| Comments: | | | | | |

Center for Disease Control Recommendations: You should be up to date on routine vaccinations while traveling to any destination. Some vaccines may also be required for travel. This country is currently level 1 (practice usual precautions).Recommended vaccines: rabies, measles, HepA/B