

Marshall University

College of Science

Mathematics Department

## **MTH 491: Senior Seminar**

### **Course catalog description**

Capstone experience in reading, doing, writing and speaking mathematics. Students will explore topics related to a theme chosen by the instructor.

### **Credit hours**

2 hours

### **Prerequisites**

None

### **List of topics**

- Using databases such as MathSciNet and EBSCO Host to search for peer-reviewed articles
- Using Latex to write scientific papers and posters
- Writing adhering to appropriate mathematical writing styles
- Using Bibtex to organize references and create a bibliography
- Academic honesty and ethics

### **Learner Outcomes**

1. Students will improve written and oral communication skills with respect to mathematics.
2. Students will improve ability to reason rigorously in mathematical arguments.
3. Students will develop ability to undertake independent work.
4. Students will advance their level of critical sophistication.
5. Students will gain perspective on interplay of applications, problem-solving, and theory.
6. Students will conduct research and make oral and written presentations on various topics.

### **Last updated**

December 2016