

# Edward Berman

## Northeastern University Transcript. B.S. Mathematics and B.S. Applied Physics

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### PhD Level Coursework.....

- Riemannian Optimization (A).  
Prof. David Rosen. Math 7223 [\[textbook\]](#) [\[other book\]](#)
- Optimization and Complexity (A-).  
Prof. Oana Veliche. Math 7234 [\[textbook\]](#)

### Masters Level Coursework.....

- General Relativity and Cosmology (A).  
Prof. Brent Nelson. Phys 5118 [\[textbook\]](#)

### Advanced Undergraduate Mathematics Coursework.....

- Advanced Group Theory (A).  
Ahmad Reza Haj Saeedi Sadegh Math 3275 [\[textbook\]](#)
- Advanced Linear Algebra (A-).  
Prof. Evan Dummit. Math 4571 [\[textbook\]](#)
- Advanced Probability and Statistics (A).  
Prof. Paul Hand. Math 3181 [\[textbook\]](#)
- Fourier Series and PDEs (A).  
Prof. Robert McOwen. Math 4545 [\[textbook\]](#)
- Real Analysis (B-).  
Prof. Alex Suciu. Math 3150 [\[textbook\]](#)

### Advanced Undergraduate Physics Coursework.....

- Thermodynamics and Statistical Mechanics (A).  
Prof. Camille Gomez-Laberge. Phys 4305 [\[textbook\]](#)
- Mathematical and Computational Methods for Physics (A-).  
Prof. Mauricio Santillana. Phys 4606 [\[textbook\]](#)
- Quantum Mechanics (B+).  
Prof. Jim Halverson. Phys 4115 [\[textbook\]](#)
- Electricity and Magnetism 1 (B).  
Prof. Thomas Kelley. Phys 3602 [\[textbook\]](#)

## Independent Study and Research Courses.....

- Research Capstone (A).  
Prof. Anthony Iarrobino. **Math 4020** [[textbook](#)]
- Research Independent Study (A).  
Prof. Calina Copos. **Math 4991** [[textbook](#)]
- Internship (A).  
Prof. Solomon Jekel. **Math 4994** [[textbook](#)]

## Intro Classes and Electives.....

- Mathematics of Art (A).  
Prof. Stanley Eigen. **Math 1220** [[textbook](#)]
- Discrete Structures (A).  
Laney Strange. **CS 1800** [[textbook](#)]
- Introduction to Environmental, Social, and Biological Data (A).  
Prof. Cristina Herren . **Envr 1500** [[textbook](#)]
- Current Issues in Cities and Suburbs (A).  
George Chichirau. **Pols 2358** [[textbook](#)]
- Advanced Writing in the Sciences (A-).  
Sarah Shapiro. **Engw 3307** [[textbook](#)]
- 40,000 Years of Music Technology (A).  
Prof. James Gutierrez. **Musc 2320** [[textbook](#)]
- Calculus 3 for Science and Engineering (B+).  
Prof. Matt Garcia. **Math 2321** [[textbook](#)]
- Differential Equations and Linear Algebra (C+).  
Bob Lupi. **Math 2341** [[textbook](#)]
- Modern Physics (C).  
Prof. Louise Skinarri **Phys 2303** [[textbook](#)]