

NJIT Open and Affordable Textbook (OAT) Initiative: Academic Year 2018-2019 Awardees and Projects

Now in its second cycle, the Open and Affordable Textbook Initiative has generated a total savings of about \$446,000 for students in courses that utilized open educational resources or free library materials.

Overall total projected savings since spring 2017:

- Total projected savings of **\$445,917**
- Total number of students impacted: **4,283**
- Total number of course curriculum redesigned: **19**

<p>The NJIT Open and Affordable Textbook Initiative realized a total cost savings and impact for academic year 2018-2019.</p> <ul style="list-style-type: none"> • Total projected savings of \$271,303 • Total number of students impacted: 2,415 	
AY2018-2019 Awardees and Projects	Additional OAT Courses Taught during AY2018-2019
<p>Projected savings of \$153,779</p> <p>Students impacted: 882</p> <p>Course curriculum redesigned: 6</p> <p>Faculty participated: 6 (2 are course coordinators)</p> <p>College: 2 (NCE), 3 (CSLA), 1 (MTSoM)</p>	<p>Projected savings of \$117,524</p> <p>Students impacted: 1,533</p>

Academic Year 2018-2019 OAT Recipients

Kenneth Horwitz, University Lecturer and Course Coordinator for MATH 107

Course: MATH 107: University Mathematics

Taught: Fall 2018 and Spring 2019

Est. Saving: Approximately 364 students impacted per year | Total savings: \$82,107

Goal: Replace the current text with reduced/low-cost open educational resources.

Dr. Simone Marras, Professor, Electrical and Computer Engineering

Course: ME 304: Fluid Mechanics

Taught: Fall 2018 and Spring 2019

Est. Saving: approximately 78 students impacted per year | Total savings: \$14,582

Goal: Replace the current text with free open educational resources.

Dr. Siva Nadimpalli, Associate Professor of Mechanical Engineering

Course: ME 620: Mechanics of Materials

Taught: Fall 2018

Est. Saving: approximately 35 students impacted per year | Total savings: \$4,465

Goal: Replace the current text with no-cost open textbook.

Padma Natarajan, Senior University Lecturer

Course: MATH 105: Elementary Probability and Statistics

Taught: Fall 2018 and Spring 2019

Est. Saving: approximately 74 students impacted per year | Total savings: \$4,993

Goal: Replace the current text with free open educational resources.

Dr. Megan O'Neill, Assistant Professor of Humanities and Course Coordinator for HUM 101

Course: HUM 101: Writing, Speaking, Thinking I

Taught: Fall 2017

Est. Saving: approximately 293 students impacted per year | Total savings: \$25,596

Goal: Replace the current text with an open textbook and supplemental open educational resources.

Dr. Junmin Shi, Associate Professor of Supply Chain and Finance

Course: FIN 310: Data Driven Financial Modeling

Taught: Fall 2018 and Spring 2019

Est. Savings: approximately 38 students impacted per year | Total savings: \$22,035

Goal: Develop open educational resources and lectures that explore real business examples.

Additional OAT Courses Taught during Academic Year 2018-2019

Dr. Matthew Bandelt, Assistant Professor of Civil and Environmental Engineering

Course: CE 333: Reinforced Concrete Design

Taught: Spring 2019

Est. Saving: Approximately 28 students impacted per year | Total savings: \$6,132

Goal: Replace the current text with reduced/low-cost resources and provide access to tools students will use in engineering practices.

Dr. Barry Cohen, College of Computing Sciences

Course: CS100: Roadmap to Computing

Taught: Fall 2018 and Spring 2019

Est. Saving: approximately 1,054 students impacted per year | Total savings: \$51,003

Goal: Replace the current text with free open educational resources and increase the frequency and effective utilization of the textbook.

Dr. Ian Gatley, Distinguish Professor of Physics

Course: PHYS 202: Intro Astronomy & Cosmology

Taught: Fall 2018

Est. Saving: approximately 103 students impacted per year | Total savings: \$9,677

Goal: Replace the current text with no-cost open textbook.

Dr. Melodi Guilbault, Senior University Lecturer

Course: MRKT 331: Consumer Insights

Taught: Fall 2018

Est. Saving: approximately 23 students impacted per year | Total savings: \$5,855

Goal: Replace the current text with free open educational resources.

Dr. Esther Lewars, Adjunct Faculty, Department of Informatics

Course: IS 265: Introduction to Information Systems

Taught: Fall 2018 Spring 2019

Est. Saving: approximately 61 students impacted per year | Total savings: \$3,459

Goal: Replace the current text with a low-cost alternative or open educational resource textbook.

Dr. Junmin Shi, Associate Professor of Supply Chain and Finance

Course: MGMT 216: Business Statistics

Taught: Fall 2018 and Spring 2019

Est. Savings: approximately 56 students impacted per year | Total savings: \$8,400

Goal: Develop open educational resources and lectures that explore real business examples.

Dr. Mark Somers, Professor of Management & Organizational Behavior

Course: HRM 301: Organizational Behavior

Taught: Fall 2018 and Spring 2019

Est. Saving: approximately 79 students impacted per year | Total savings: \$16,228

Goal: Replace the current text with open educational resource textbook.

Dr. Maria Stanko, University Lecturer of Biological Sciences

Course: BIOL 200: Concepts in Biology

Taught: Fall 2018 and Spring 2019

Est. Saving: approximately 129 students impacted per year | Total savings: \$16,770

Goal: Improve alignment of course material with free resources and ease the transition to a textbook-free course.