

NJIT Open and Affordable Textbook (OAT) Initiative: Academic Year 2017-2018 Awardees and Projects

The NJIT Open and Affordable Textbook Initiative realized a total cost savings and impact for academic year 2017-2018.

- Total savings of **\$174,614**
- Total number of students impacted: **1,868**
- Total number of course curriculum redesigned: 13 courses
- Total number of faculty participated: 12 faculty
- College represented: 2 (NCE), 6 (CSLA), 3 (MTSoM), and 2 (YWCC)

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

Course: CE 333: Reinforced Concrete Design

Taught: Fall 2017

Est. Saving: Approximately 38 students impacted per year | Total savings: \$4,560

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

Dr. Barry Cohen, Associate Dean, Computer Science

Course: CS100: Roadmap to Computing

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 837 students impacted per year | Total savings: \$40,502

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 2017

Est. Saving: approximately 106 students impacted per year | Total savings: \$9,959

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

Dr. Melodi Guilbault, Senior University Lecturer

Course: MRKT 331: Consumer Insights

Taught: Summer 2018

Est. Saving: approximately 12 students impacted per year | Total savings: \$3,055

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

Dr. Walid Hubbi, Associate Professor of Electrical and Computer Engineering

Course: ECE 341: Energy Conversion

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 75 students impacted per year | Total savings: \$15,000

Goal: Replace the current text with varied learning resources and assignment problems. Students will search for and recommend learning resources for specific topics.

Dr. Burt Kimmelman, Professor of English

Course: HSS 403: Literary Journalism: Fact and Truth

Taught: Fall 2017

Est. Saving: approximately 23 students impacted per year

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

Dr. Esther Lewars, Adjunct Faculty, Division of Information Systems

Course: IS 265: Introduction to Information Systems

Taught: Spring 2018

Est. Saving: approximately 34 students impacted per year | Total savings: \$1,928

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 2017, Spring 2018

Est. Savings: approximately 55 students impacted per year | Total savings: \$8,250

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

Dr. David Shirokoff, Assistant Professor of Mathematics

Course: MATH 707: Optimization

Taught: Spring 2018

Est. Savings: approximately 13 students impacted per year | Total cost savings: \$1,648

Dr. Mark Somers, Professor of Management & Organizational Behavior

Course: HRM 301: Organizational Behavior

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 87 students impacted per year | Total savings: \$17,872

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 2017, Spring 2018

Est. Saving: approximately 467 students impacted per year | Total savings: \$60,710

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

Ms. Anika Waltz-Cummings, University Lecturer of Humanities

Course: ENG 352: Technical Writing, HUM 102: Speaking, and Thinking II

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 121 students impacted per year | Total savings: \$11,121

Goal: Replace the current text with educational materials of nominal cost and higher applicability.