

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

The projected cost savings for academic year 2017-2018 is \$163,382.

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 | Projected 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 795 students impacted per year | Projected savings: \$38,470

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

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

Course: ECE 341: Energy Conversion

Taught: Fall 2017, Spring 2018

Est. Saving: approximately 76 students impacted per year | Projected savings: \$15,200

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

Dr. Antje Ihlefeld, Assistant Professor of Biomedical Engineering

Course: BME 333: Biomedical Signals and Systems

Taught: Spring 2018

Est. Saving: approximately 20 students impacted per year | Projected savings: \$3,793

Goal: Replace the current text with self-developed open educational videos. The aim is to change from lecture-style to a flipped classroom model that involves hands-on, interactive problem solving in class.

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: Fall 2017, Spring 2018

Est. Saving: approximately 66 students impacted per year | Projected savings: \$5,403

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 58 students impacted per year | Projected savings: \$8,700

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 2017, Spring 2018

Est. Saving: approximately 78 students impacted per year | Projected savings: \$16,023

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 465 students impacted per year | Projected savings: \$60,450

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 116 students impacted per year | Projected savings: \$10,782

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