

## Abstract Examples

### FIRST-YEAR MECHANICAL ENGINEERING DESIGN EXPO

*The first sentence of the abstract includes a statistic that motivates the study and will generate interest in readers.*

Title: RECIPROCATING LAWN MOWER

Major(s): Mechanical Engineering

Department: Physical and Environmental Sciences

*The authors provide clarification to the term "two-stroke engines" so that readers without technical experience will understand the significance of the statement.*

Abstract: It has been estimated that two-stroke engines, such as those commonly used in lawnmowers, produce the emissions equivalent of ten automobile engines run for the same amount of time. The purpose of this project was to design an improved motorless lawn mower. The lawn mower created was an innovative design that used wheel rotation to create a reciprocating effect between two cutting blades. A geared transmission was used to optimize the reciprocating motion of the blades. The designers will demonstrate the functionality of their novel, energy-efficient lawn mower and hope to raise awareness regarding eco-friendly alternatives.

*The purpose of the project is clearly stated.*

*The abstract concludes with what was achieved and ties back to the introduction.*