



CAPTURE

180 RESEARCH CHALLENGE

Sponsored by the
North Carolina Biotechnology Center

WELCOME TO CAPTURE 180 | 2019

The Capture 180 Research Challenge is a forum for students who have participated in undergraduate research and creative activity projects under the mentorship of a faculty member. This year we have eight students from four different colleges competing for the top prize. Challenge judges will choose one Grand Champion and the audience will select a People' Choice winner.

ABOUT CAPTURE 180

The Capture 180 Research Challenge tasks undergraduates to describe their work to a lay audience in 2-3 minutes, using one static slide or prop. It is based on the popular 3MT® competition for graduate students.

JUDGING & PRIZES

Capture 180 judges are distinguished community leaders and ECU administrators. They are charged to use the judging criteria of comprehension, content, engagement and communication (equally rated). They will deliberate after all the presentations, and the presenter that ranks first will be the Grand Champion. The audience is also encouraged to fill out a ballot with the same criteria. Audience ratings will determine the People's Choice winner. Because the competition is short, winners are announced after the judges deliberate and trophies are awarded immediately.

EVENT OVERVIEW

10-10:15 A.M.	JUDGE & PRESENTER CHECK-IN
10:15-10:45 A.M.	PRESENTATIONS
10:45-11 A.M.	STUDENT RESEARCH VIDEOS REDE & ECU CREATIVE SERVICES
11 A.M.	AWARDS

PRESENTATIONS

1. Media and Fraud: Accounting and Accountability

How does media attention impact individual's propensity to commit fraud?

TAYLOR CHAPPELL; ACCOUNTING
MENTOR: LINDA QUICK

2. Most Effective Study Methods for High-Stakes Tests: The CPA Exam

Preparing students for success by overcoming low CPA exam pass rates.

RACHEL HULL; ACCOUNTING
MENTOR: LINDA QUICK

3. Acinetobacter Baumannii Biofilm Response Regulator BfmR

The goo with an on/off switch.

FELICIA JAIMES; CHEMISTRY
MENTORS: JOHN CAVANAGH & RICHELE THOMPSON

4. Building Muscle BRCA1 by BRCA1

Identifying the contribution of BRCA1 to building and repairing skeletal muscle.

ANANYA KORIPPELLA; PUBLIC HEALTH STUDIES
MENTOR: ESPEN SPANGENBURG

5. PV Interconnection Within Beaufort County

Power grid layout within Beaufort county showing how the pv farms are connected to the grid.

DANIEL KRIEGER; ENGINEERING
MENTOR: JT FILHO

6. New Cell Who Dis? How Differentiation Remodels the Mitochondrial Network in Leukemia

Identifying metabolic vulnerabilities in leukemia using discovery-based biochemistry, setting the stage for a drug that specifically attacks only cancerous cells.

NAIMI POTHIWALA; PUBLIC HEALTH STUDIES
MENTOR: KELSEY FISHER-WELLMAN

7. Patient-Specific 3D Printed Models for Perioperative Planning

Exploring the impact of 3D printing in health care with patient-specific models.

ANUJ SANGHVI; ENGINEERING
MENTOR: BARBARA MULLER-BORER

8. Your Child is Overweight, Now What?

Improving Head Start parents understanding of best practices for promoting healthy weight among preschoolers.

DANA SHEFET; PUBLIC HEALTH
MENTOR: VIRGINIA STAGE