Creating an Appreciation for Science
Undergraduate Research at East Georgia College

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Research for Undergraduates? Why?

- It's fun
- Students can use the experience on resumes
- Students get hands on experience, they see what science is really about
- Students may be published
  - Georgia Journal of Science is a publication of the Georgia Academy of Science
- Students present findings at state-wide meetings
- Infectious, others see the fun and benefits and get involved themselves
Research for Undergraduates? Why?

- Students learn how to utilize library resources
- Creates independent thinkers
- Make connections between courses
  - Statistics is in fact useful
  - Writing is important
  - Library resources
Suggestions

- **Collaborate, collaborate, collaborate**
  - At a two year institution you should work with industry, other scientists, fellow faculty members to create a successful program

- **Be patient**
  - Students first exposure to research can be challenging

- **Start small**
  - Find out what works for you and your students
Courses Offered at East Georgia College

- **PROB 1101 Problem Solving I**
  - 1-0-1 An interdisciplinary course in science and mathematics. Projects from a variety of areas including biology, chemistry, geology, mathematics and physics will be considered.
  - Emphasis will be placed upon the interdisciplinary nature of the sciences.

- **PROB 1102 Problem Solving II**
  - 1-0-1 A continuation of PROB 1101. Students may select a second project.
- **Area B** Institutional Options 4 hours
  - (Choose one)
  - COMM 1110 Public Speaking 3
  - BIOL 1000 Environmental Biology 3
  - GEOL 1123 Environmental Geology 3
  - POLS 2401 Global Issues 3

- (Choose one)
  - EGAC 1010 Basic Computer Skills 1
  - MATH 1000 Problems in Mathematics 1
  - PROB 1101 Problem Solving I 1
  - PROB 1102 Problem Solving II 1
  - SERV 1001 Service Learning Seminar 1

- **Area F** for all Science and Math majors
Undergraduate Research in Dr. Wedincamp's Lab
Challenges

- **Course is independent study**
  - No compensation for instructor

- **Course is a 1 hour credit**
  - To complete a thorough project, more than 1 hour per week is required

- **Scheduling**
  - Science instructors normally teach 4 courses with labs, time during the week is limited

- **Recognition for instructors**
  - Research is not a major factor in determining tenure, promotion, and merit pay

- **Student knowledge base**
Projects

- Pest Resistant Dog Food Packaging Trial
- Yellow Jacket (Hymenoptera: Vespidae) Lure Comparison Study
- Evaluation of the viscosity of okra gum with the addition of fructose or sucrose.
- Survey of the Ectoparasites of the White-tailed Deer (*Odocoileus virginianus*) in Southeastern Georgia
- Examination of a Gopher Tortoise Colony on a Proposed Building Site in Emanuel County
- Comparison of Proprietary and Standard Bait Formulations for Attracting the Yellow Jacket (Hymenoptera: Vespidae)
Vespula squamosa
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