

CS & IT Program Advisory Board Meeting

October 8, 2021



Special Guests & New Members

- Dr. Way - President
- Dr. Wehlburg - Provost
- Dr. Delap - VP of Corporate & Community Relations
- Ms. Laura Weeks - Experiential Learning and Special Projects Coordinator
- Dr. Jing Chen - Associate Professor of Computer Science
- Ms. Anna Dubé - IT student representative
- Mr. Manning Pendergrass - Staff representative
- Mr. Codey Sivley - MACS Club and CS student representative



ABET Updates

- Programs (IT & CS) up for re-affirmation
- Virtual visit October 25th - 27th
- Request for visit with PAB members October 26th
- Curriculum Requirement Updates
- Review of Student Outcomes & Objectives
- Student Assessment



CS Program Curriculum Requirements

- Techniques, skills, and tools necessary for computing practice.
- Principles and practices for secure computing.
- Local and global impacts of computing solutions on individuals, organizations, and society.
- Substantial coverage of algorithms and complexity, computer science theory, concepts of programming languages, and software development.
- Substantial coverage of at least one general-purpose programming language.
- Exposure to computer architecture and organization, information management, networking and communication, operating systems, and parallel and distributed computing.
- The study of computing-based systems at varying levels of abstraction.
- A major project that requires integration and application of knowledge and skills acquired in earlier course work.



IT Program Curriculum Requirements

- Fundamentals and applied practice in:
 - information management
 - integrated systems
 - platform technologies
 - system paradigms
 - user experience design
 - networking
 - software development and management
 - web and mobile systems
- Advanced and supplemental IT topics that build on fundamentals and applied practice to provide depth.
- Experiential learning appropriate to the program.
- Principles and practices of IT project management.



CAC Student Outcomes

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline. (Re-worded however still the same from 2019)
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.



Program Specific Outcomes

Past CS Outcome	Current CS Outcomes
Apply computer science theory and software development fundamentals to produce computing-based solutions. [CS]	Apply computer science theory and software development fundamentals to produce computing-based solutions. [CS]
Past IT Outcome	Current IT Outcomes
Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems. [IT]	Use systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals. [IT]

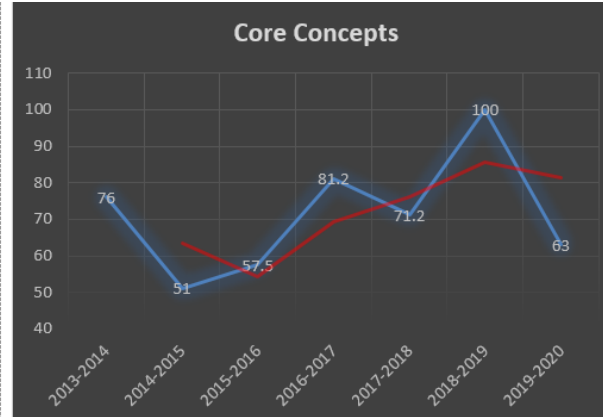
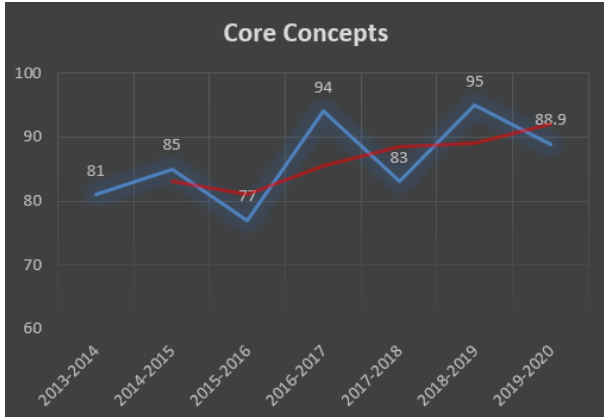


Assessment

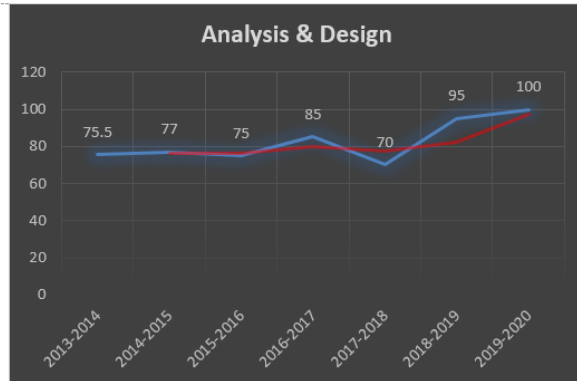
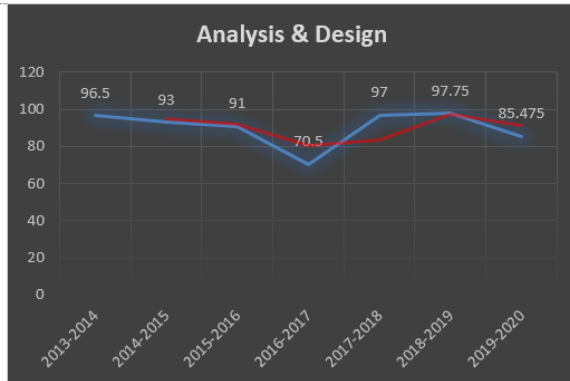
Computer Science Students



Assessment – Core Knowledge

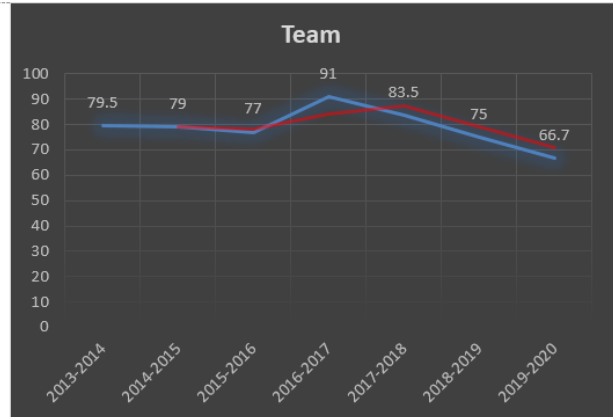
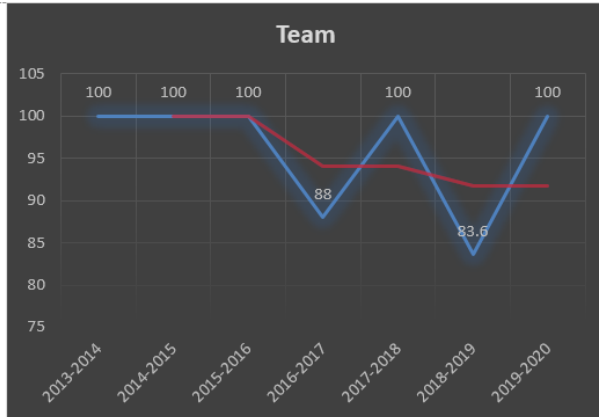


Assessment – Analysis and Design

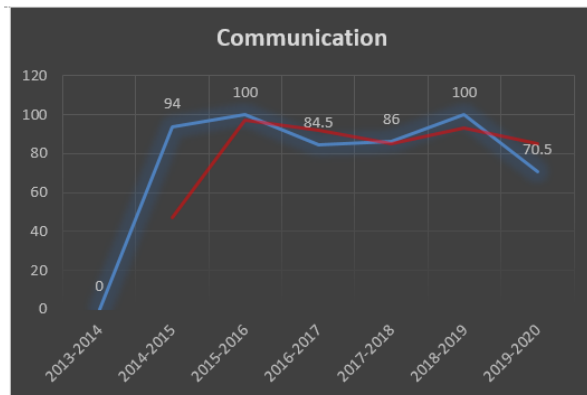




Assessment - Teamwork

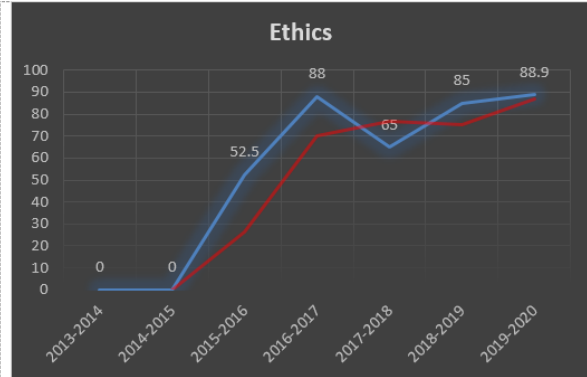
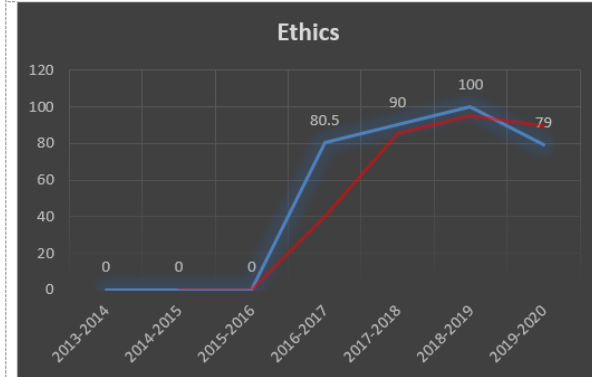


Assessment - Communication





Assessment - Ethics

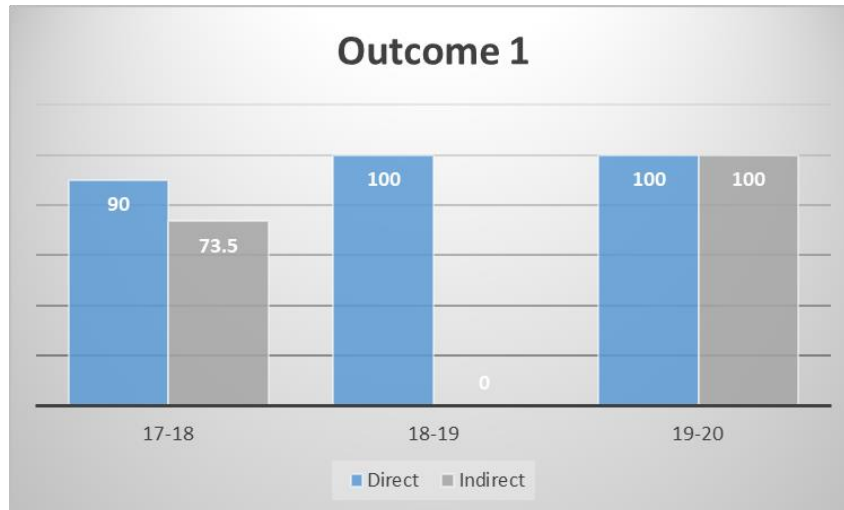


Assessment

Information Technology Students



Assessment – Analyzing Problems

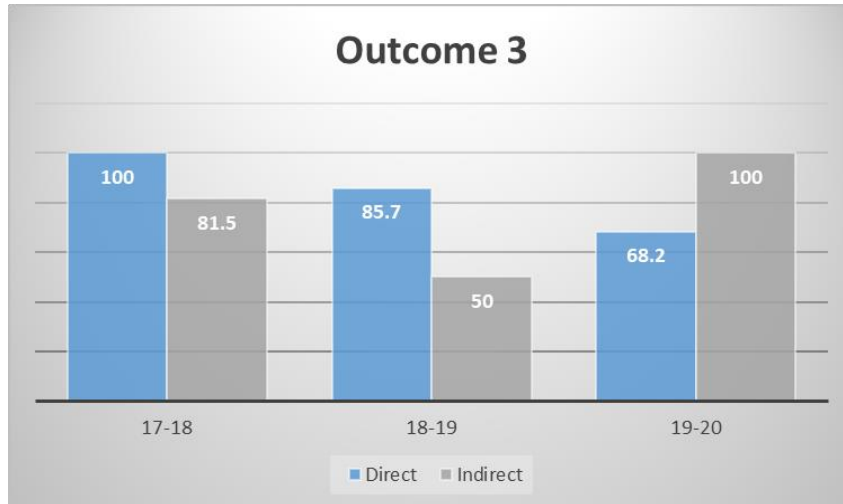


Assessment – Design & Implementation

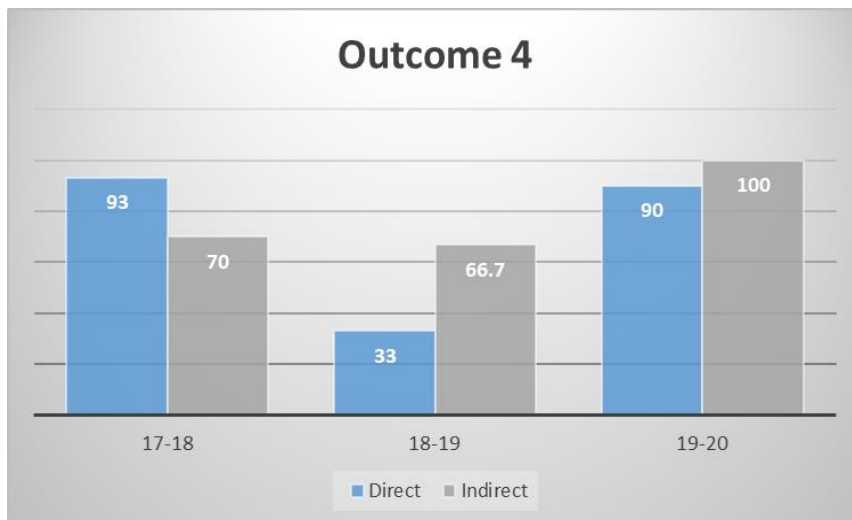




Assessment - Communication



Assessment - Ethics

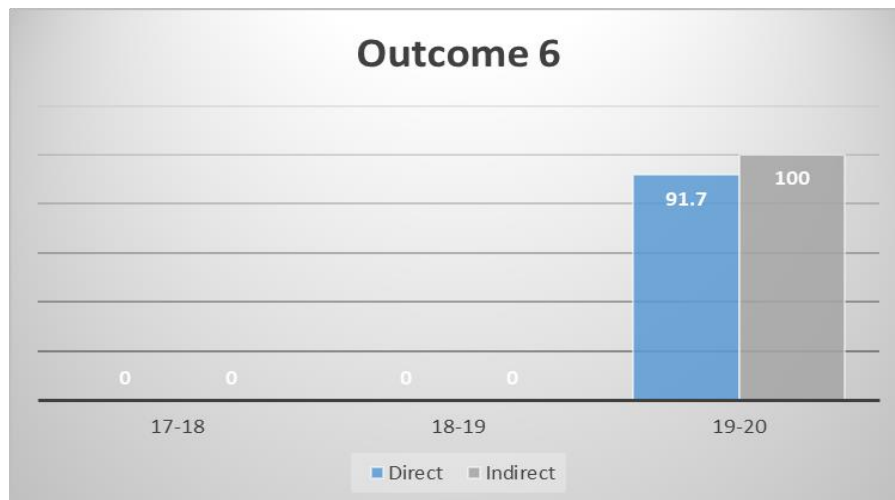




Assessment – Teamwork



Assessment – Systematic Approaches





Partnerships

- Career Pathways Course
 - Virtual guest speakers
 - Virtual mock interviewers
 - 4 weeks 2 hours spring/fall; 2 weeks 4 hours summer
- Math & Computer Science Club
 - Company information sessions
 - Virtual guest speakers
 - Facility tours
- ASSIST Scholarship Industry Mentors



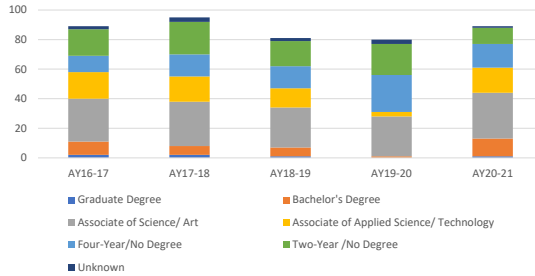
Graduate Programs

- Masters of Science in Computer Science
- Masters of Science in Cybersecurity
 - Interdisciplinary Degree
 - Computer Science, Information Technology and Management of Cyber Operations
- Both programs online
- Both programs with options of thesis or non-thesis
- ACHE Meeting - December 2021
 - Approval - First co-hort accepted Fall 2022



Enrollment

Students Accepted per Degree Earned by Academic Year



Academic Year	Total Accepted	Major		Highest Previous Degree				Highest Previous College if No		
		CS	ITE	Graduate Degree	Bachelor's Degree	Associate of Science/ Art	Associate of Applied Science/ Technology	Four-Year/No Degree	Two-Year /No Degree	Unknown
AY16-17	89	89	0	2	9	29	18	11	18	2
AY17-18	95	70	25	2	6	30	17	15	22	3
AY18-19	81	54	27	1	6	27	13	15	17	2
AY19-20	80	62	18	0	1	27	3	25	21	3
AY20-21	89	60	29	1	12	31	17	16	11	1



Senior Capstone Projects

- Experiential Learning Tracking System
- BioRube Bot iPad Game updates and new levels
- Athens Police Department Hostage Negotiation Application
- Presentations will be held during the week of November 29th - December 3rd
 - Invitations will be sent out closer to time



Sponsorships

- Center for Technology and Cyber Security
- Cyber Lab Endowment and Naming Opportunity
- Endowed Professorship
- Cyber Security Student Fellowship Scholarships
- Information provided by Office of Advancement
 - Mrs. Brandy Conway
 - brandy.conway@athens.edu



Wrap Up

- ABET Meetings October 26th
- Career Pathways Mock Interviews October 25th - November 19th
- Capstone presentations November 29th - December 3rd
- Graduate Program Decisions December
- Next Meeting April 2022
- ABET Decision August/September 2022
- CS & IT Self-study reports are available in digital format

