



School of EECS

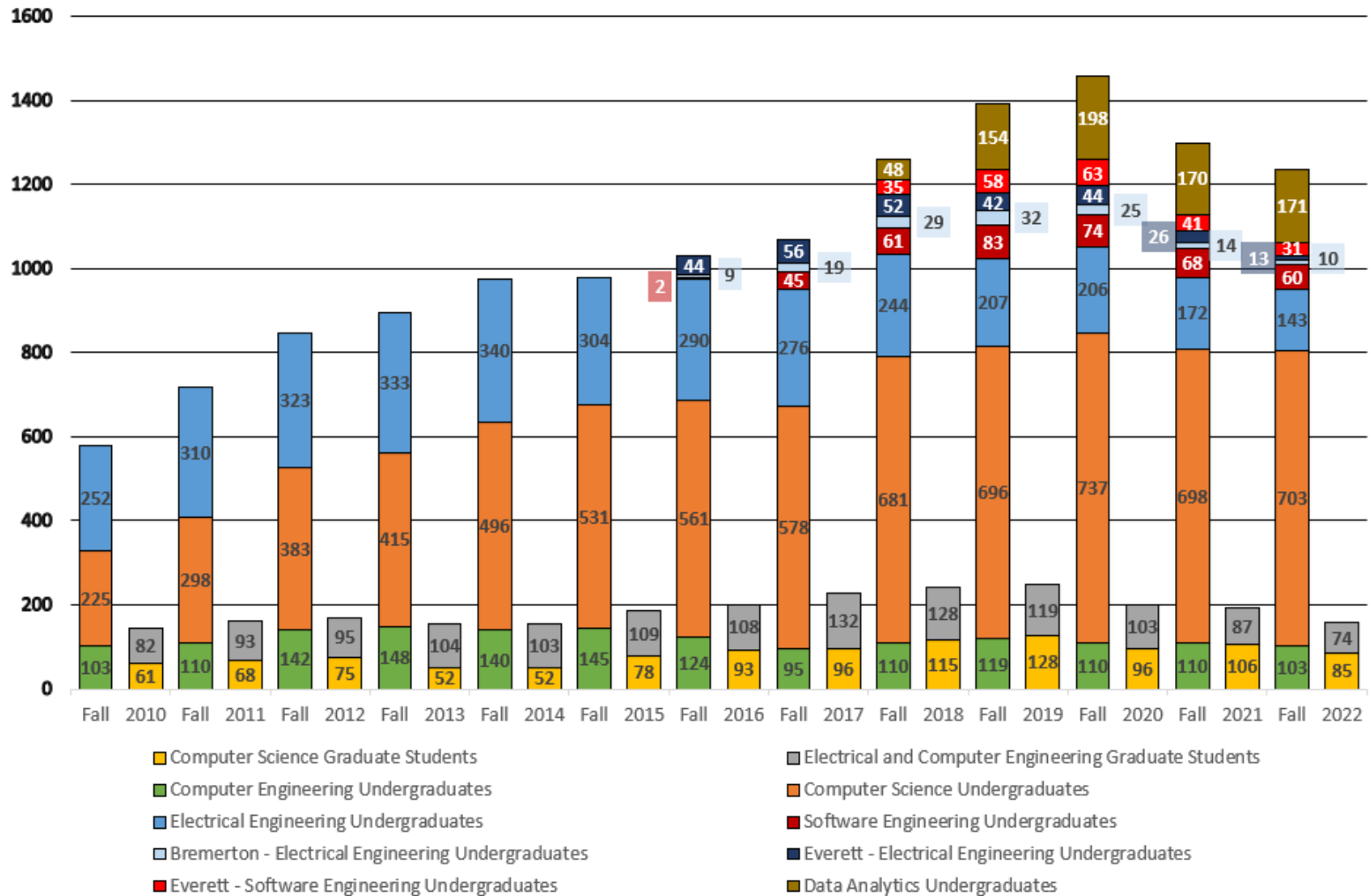
State of Undergraduate and Graduate Programs

22nd May 2023

ACADEMIC PROGRAMS IN EECS

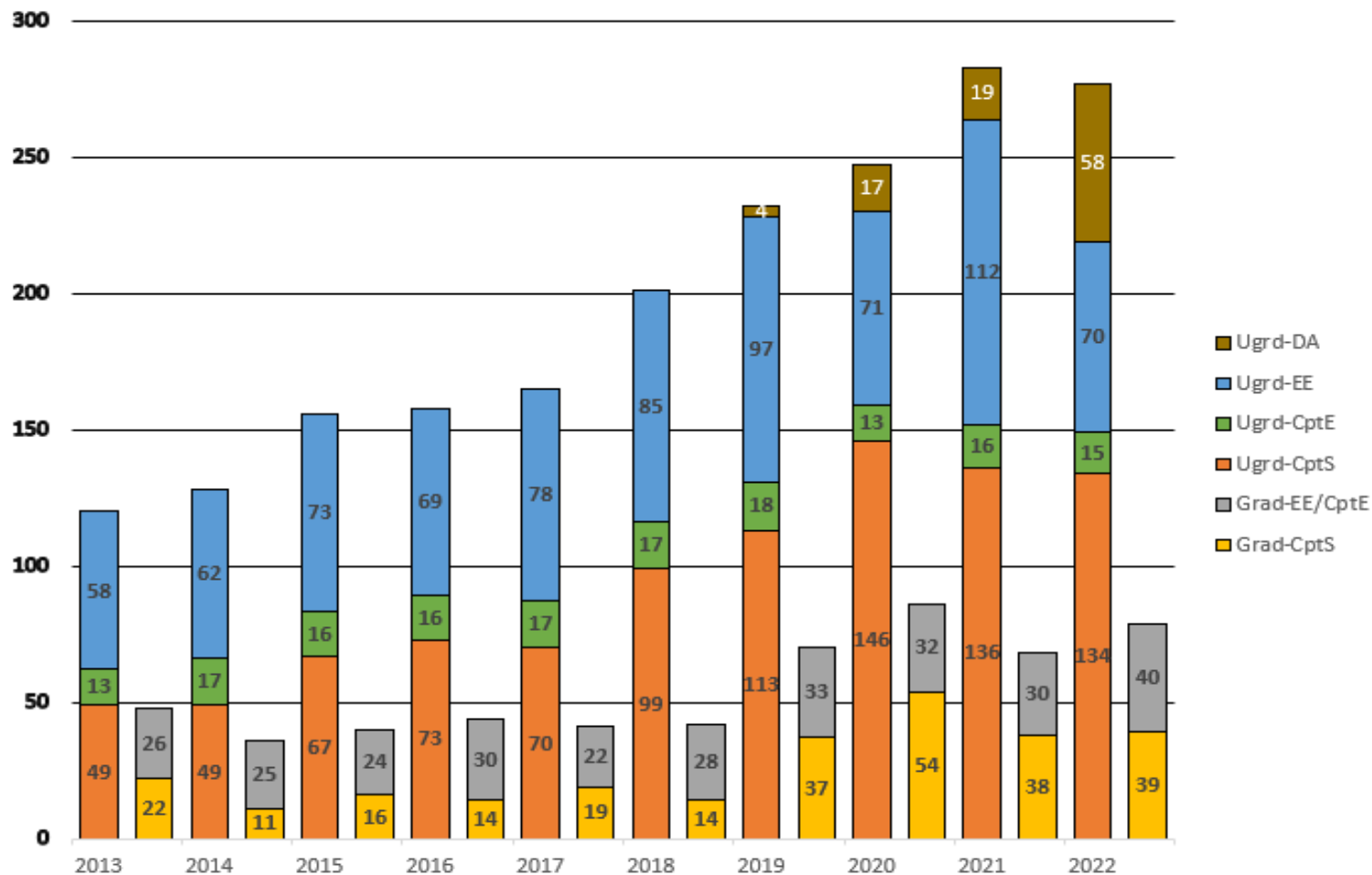
- ❑ Computer Science
- ❑ Computer Engineering
- ❑ Electrical Engineering
- ❑ Software Engineering
- ❑ Data Analytics (University Wide Program)
- ❑ **Cybersecurity (New)**

STUDENT POPULATION: STATISTICS



GRADUATION: STATISTICS

Degrees Granted by Fiscal Year



ACCREDITATION (ABET)

- ❑ All programs in EECS accredited by ABET, but by two different commissions:
 - Engineering Accreditation Commission (EAC): EE, CptE, SE
 - Computing Accreditation Commission (CAC): BA & BS CptS

MULTIPLE NEW FACULTY

- ❑ Multiple new faculty to support the cybersecurity program
 - Four new faculty in Pullman
 - One new faculty in Everett
 - One new faculty in TC



CYBERSECURITY CURRICULUM UPDATES

- ❑ Approved at all levels as of March 30th 2023 including NWCCU
- ❑ 4-year degree plan is live
- ❑ Credits Required: 120
- ❑ First two years very similar to BS in Computer Science; last two years heavy on cybersecurity courses
- ❑ Cybersecurity degree highlights:
 - Focuses on cyber operations
 - Emphasizes hands-on coursework, experiential learning
- ❑ Has synergy with the VICEROY Institute for Cybersecurity Education and Research (CySER) - <https://cyser.wsu.edu/>



CYBERSECURITY COURSES

❑ Required existing courses

- CPTS 327: Fundamentals of Cyber Security & Cryptography
- CPTS 427: Cyber Security of Wireless and Distributed Systems
- CPTS 428/528: Software Security & Software Reverse Engineering
- CPTS 455: Introduction to Computer Networks and Security
- CPTS 439: Cyber Security of Critical Infrastructure Systems

❑ Required new courses

- CPTS 426: Hardware, Firmware Security & Hardware Reverse Engineering
- CPTS 432: Cybersecurity Capstone Project

❑ Elective new courses

- CPTS 424: Cyber Law, Ethics, Rights, and Policies
- CPTS 425: Cyber Forensics and Anti-Forensics
- CPTS 429: Virtualization and Offensive Cyber Operations
- CPTS 431: Security Analytics and DevSecOps

CAPSTONE PROJECTS

Fall 2022 – Spring 2023 CS capstone cohort details:

Total projects: 43

Industry projects: 37

Industry projects percentage: 86%

Sponsors:

- 1.SEL
- 2.Dell
- 3.Boeing
- 4.Microsoft
- 5.F5 Networks
- 6.Luckmon Games
- 7.Dearien Games
- 8.Naval Undersea Warfare Center
- 9.Parchment Desktops
- 10.Colfax Council on Aging
- 11.Wahkiakum School District
- 12.Pullman School District
- 13.Disability Action Center – Northwest
- 14.Latah Alliance on Mental Illness
- 15.Psychology Clinic at WSU
- 16.School of Biological Sciences at WSU
- 17.School of Global Health at WSU