



WPS Innovation Pathways

EMPOWERING STUDENTS WITH A CAREER VISION AND
THE SKILLS TO PURSUE IT WITH CONFIDENCE

What is Innovation Pathways?

- ▶ Part of MA High Quality College and Career Pathways Initiative
- ▶ Career Options in fields of student choice
- ▶ Coursework and hands-on experience in a high-demand industry
- ▶ Partnerships with business and community organizations
- ▶ Supports and skills to persist in program and be professionally successful

Program Components

Program Requirements

- ▶ College and Career Readiness I and II
- ▶ 2 technical courses
- ▶ 100-hour Paid Internship or Capstone
- ▶ 2 Courses that qualify as College level e.g., AP or Dual Enrollment

Logistics

- ▶ Students take Technical classes at WTHS for 2, 15-week skills courses November – March; 2:30 – 5:30 p.m.
- ▶ Technical skills courses count as credit toward graduation
- ▶ College and Career Readiness Instructors support students through academics, presentations, and internships
- ▶ Students are guided into appropriate college level classes while in high school
- ▶ Industry Partners will help find summer internships the summer after students' second technical course

Course Pathways for Students Starting in 2018

Required Technical Courses

Credentials

1

Allied Health

- Introduction to Health Careers
- CNA and Allied Health Skills

Prepares students for the Certified Nursing Assistant Certification; OSHA General Industry safety card

2

Civil Engineering

- Introduction to Construction
- Basic Carpentry and Framing

Construction OSHA safety card; Pre-apprenticeship program certification (process begun)

3

Information Technology

- IT Essentials
- Networking Essentials

Prepares students for the CompTIA A+ certification exams 220-1001 and 220-1002. Cisco Certification; OSHA General Industry safety card

4

Manufacturing

- Introduction to Machine Operations
- Machine Operations I

Prepares students for MACWIC, NIMS, and NC3 credentials; OSHA General Industry safety card

Why These Four Programs?

- ▶ DESE identified high-demand sectors based on state employment data
- ▶ High-demand areas for future central MA employment
- ▶ Ability to gain industry recognized credential
 - ▶ Make students more competitive in field
 - ▶ Provide student options for future in career path
- ▶ High interest areas based on
 - ▶ Student choice for WTHS
 - ▶ Student choice from sample group conversations at participating schools

*Data on the following slides obtained from partnership with MassHire Central Workforce Development Board

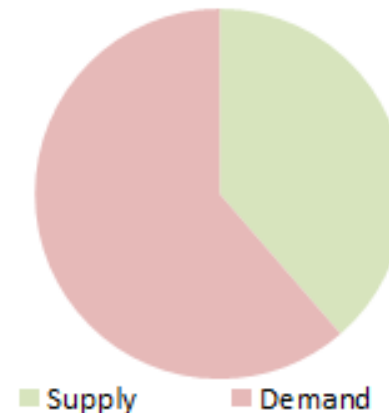
Industry Data – Allied Health



- ▶ Local employers
 - ▶ Umass/Umass Memorial, St. Vincent's
 - ▶ CVS Caremark, Walgreens
 - ▶ Long-term care facilities (nursing homes, assisted living centers), such as Beaumont, Christopher House, Holy Trinity, Notre Dame, Autumn Woods, etc.
- ▶ Additional future workforce need
 - ▶ Nurse Practitioners
 - ▶ 18.4% Growth Projection 2014-2024
 - ▶ Home Health Aides
 - ▶ 22.2% Growth Projections 2014-2024

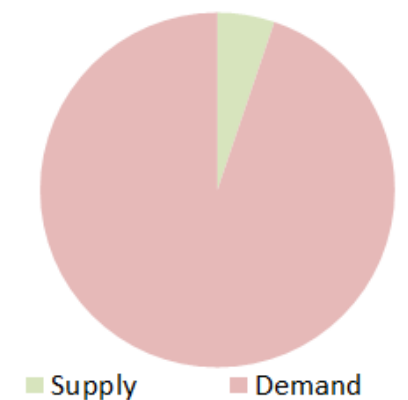
Nursing Assistant
\$29,643

Supply and Demand



Registered Nurse
\$82,535

Supply and Demand

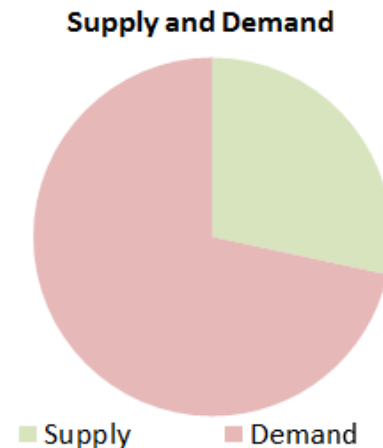


Industry Data – IT Networking

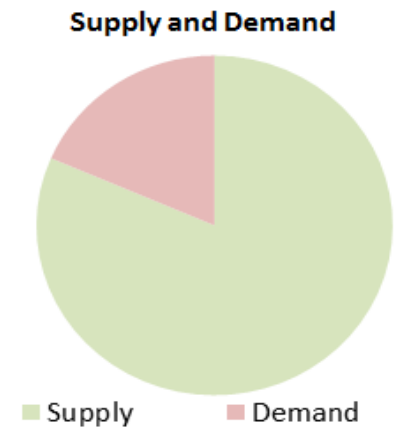


- ▶ Local employers
 - ▶ Umass
 - ▶ BJ's Wholesale Club
 - ▶ Booz Allen Hamilton
 - ▶ eClinical Works
 - ▶ Hanover Insurance
- ▶ Additional future workforce need
 - ▶ Software Systems Developer
 - ▶ 14.8% Growth Projection 2014-2024
 - ▶ Application Systems Developer
 - ▶ 13.2% Growth Projections 2014-2024

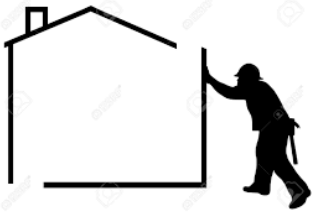
Computer User
Support Specialist
\$38,904



Computer Network
Support Specialists
\$86,458

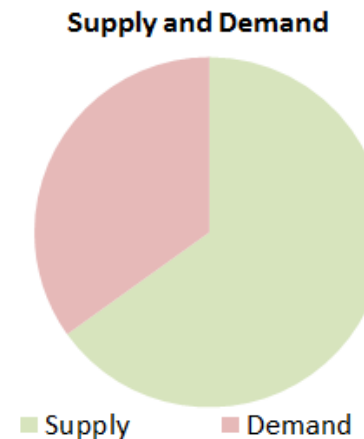


Industry Data – Civil Engineering

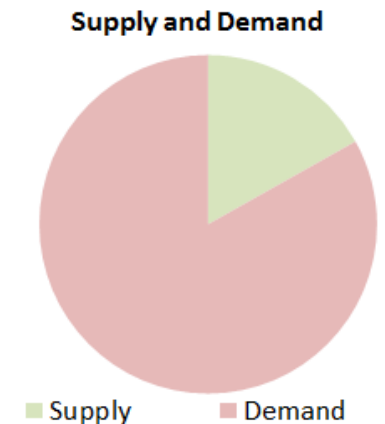


- ▶ Local employers
 - ▶ RH White Construction
 - ▶ Consigli
 - ▶ People Ready
 - ▶ MA Cities/Towns
- ▶ Additional future workforce need
 - ▶ General Repair/Maintenance
 - ▶ 4.5% Growth Projection 2014-2024
 - ▶ Construction Laborer
 - ▶ 5.0% Growth Projections 2014-2024

Carpenter
\$45,727



Civil Engineer
\$76,141



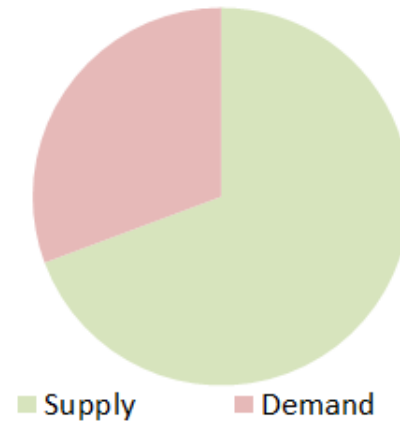
Industry Data – Advanced Manufacturing



- ▶ Local employers
 - ▶ St. Gobain
 - ▶ Primetals
 - ▶ IPG Photonics
 - ▶ Abbvie
- ▶ Additional future workforce need
 - ▶ Machinists
 - ▶ 7.8% Growth Projection 2014-2024
 - ▶ Demand for workforce will increase as manufacturing takes on different forms

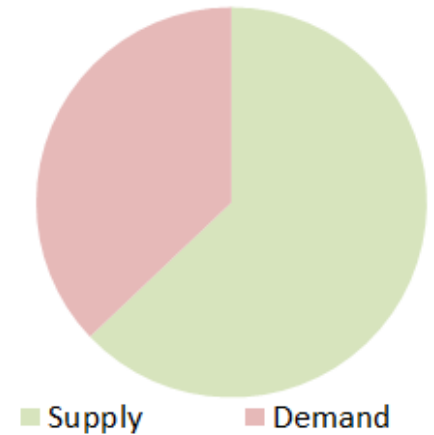
CNC Machine Operator
\$41,988

Supply and Demand



Machinist
\$46,652

Supply and Demand



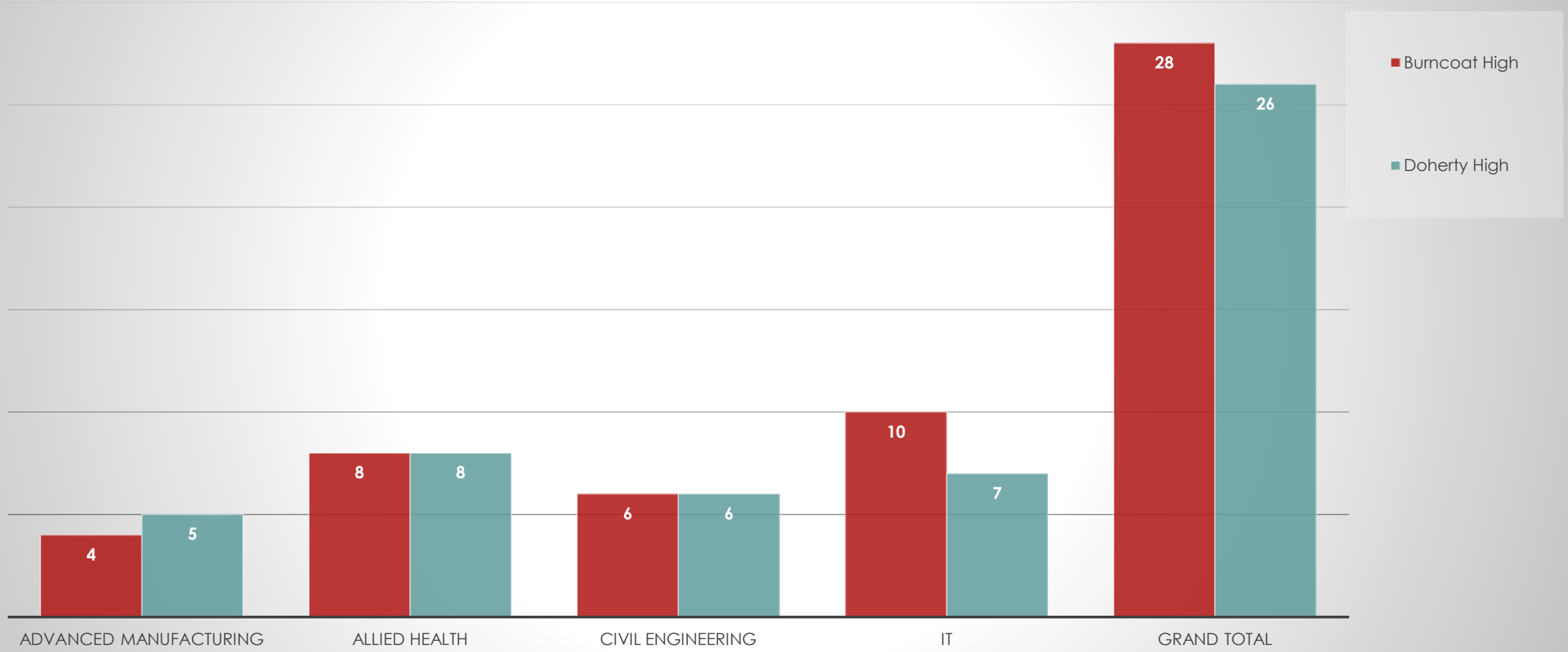
Applications

- ▶ Qualifications
 - ▶ Preference given to current 9th graders
 - ▶ Must be passing 4 year-long classes at time of application (end of first semester)
 - ▶ Must pass discipline review for safety (no drug, weapon, violence related suspensions)
 - ▶ Have 10 or fewer absences at time of application (end of first semester)
 - ▶ Must complete application
 - ▶ 2-3 sentence personal statement
 - ▶ Teacher recommendation
 - ▶ If all above requirements are met, students will participate in an interview
- ▶ Team from all represented schools meet to discuss applicants
 - ▶ Select candidates and waiting list based on random number assignment

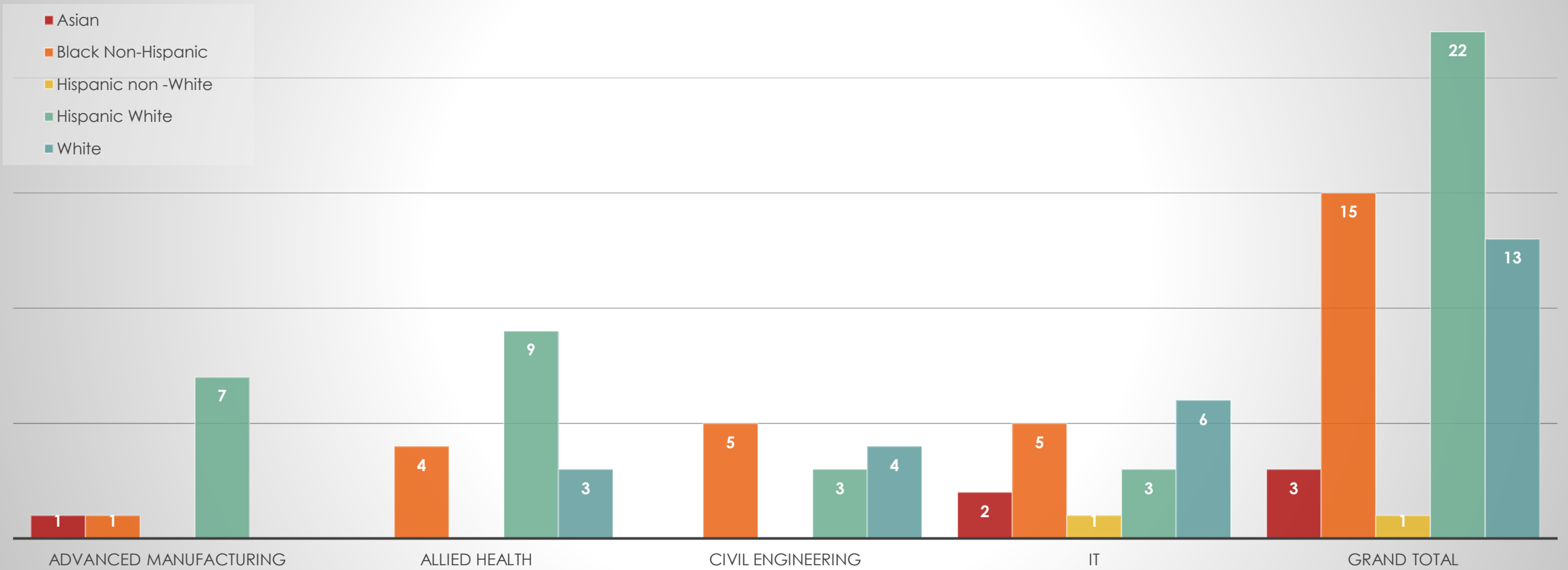
Application Recap

	Total Student Numbers
Allied Health (16)	77
Civil Engineering (12)	52
Advanced Manufacturing (12-14)	6
IT (20)	37
Unknown	11
9th Grade	90
10th Grade	91
11th grade	2
Burncoat	82
Doherty	101

Enrollment Data (School)



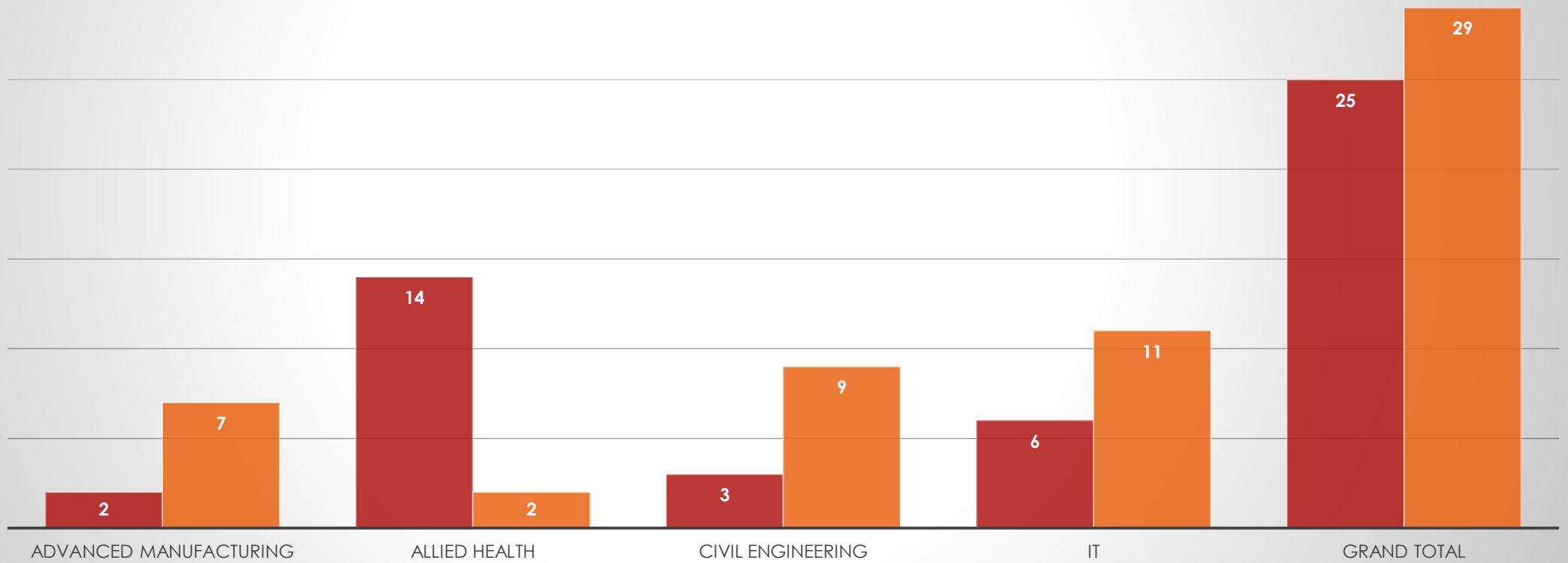
Enrollment Data (Ethnicity)



Enrollment Data (Gender)

Female

Male



Other Enrollment Information

- ▶ 54 Students are currently enrolled as of 9/25/18
 - ▶ 23 are designed as EL students
 - ▶ 2 level-2 students
 - ▶ 10 level-3 students
 - ▶ 6 level-4 students
 - ▶ 5 level-5 students
 - ▶ 9 students currently receive special education services

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Current Innovation Pathways Staff

- ▶ Sherri Milkowski – College and Career Readiness 1 @ Burncoat
- ▶ John Creamer – College and Career Readiness 1 @ Doherty
- ▶ Brian Cummings – Advanced Manufacturing
- ▶ Joe Lonergan – Civil Engineering
- ▶ Paula Lonergan – Allied Health
- ▶ Susan Leboeuf – IT Networking
- ▶ Jennifer Hardy – Advising and committed to teaching IT Computer Science next year

College and Career Readiness Curriculum

- ▶ Students take class at home high school and in a cohort
 - ▶ Challenge to schedule all students
- ▶ Chapter 74 Strand 4 – Employability and Career Readiness Skills
- ▶ Chapter 74 Strand 5 – Business Management and Entrepreneurship Skills
 - ▶ Will incorporate personal as well as business finance skills
- ▶ Chapter 74 Strand 6 – Technological Skills
 - ▶ Incorporates research, problem solving, collaborative work

Future Expansion

- ▶ IT will be split into 2 pathways
 - ▶ Computer Science and Web Development
 - ▶ IT Essentials and Networking
- ▶ All WPS high schools will be invited to have their students participate beginning in 2019-2020
- ▶ Expansion of one program each year for the next 4 years