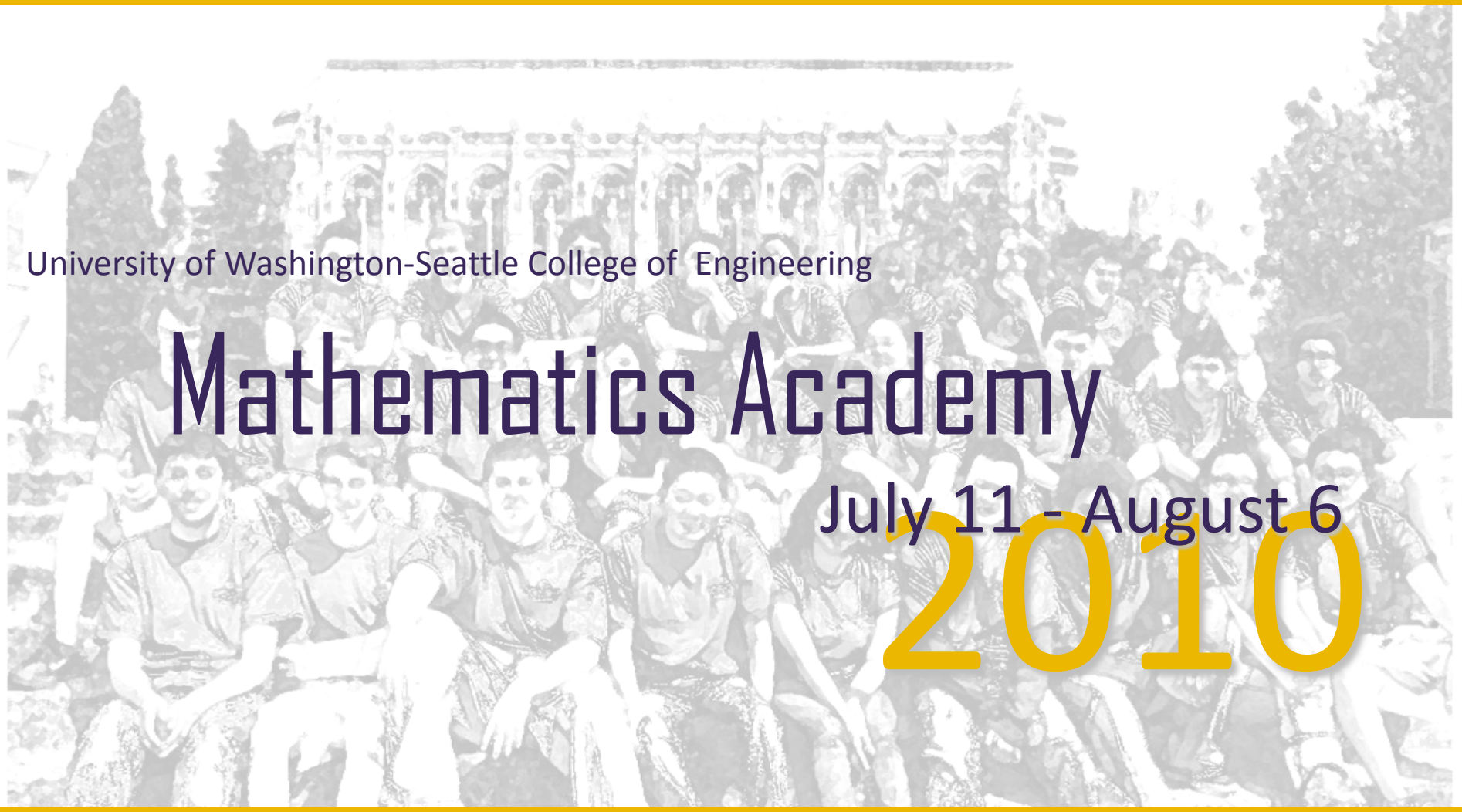

University of Washington-Seattle College of Engineering

Mathematics Academy

July 11 - August 6

2010

MATHEMATICS ACADEMY
UNIVERSITY of WASHINGTON
College of Engineering

About the College of Engineering **MATHEMATICS ACADEMY**

The COLLEGE OF ENGINEERING MATHEMATICS ACADEMY is a mathematics intensive, four-week residential session , first held on the University of Washington-Seattle (UW) campus during summer 2009.

While at the University of Washington, students will:

- **Spend class time learning and developing skills in speed, accuracy, problem-solving and how to "Think like a Mathematician" from UW math and engineering instructors**

- **Work with University of Washington student tutors during study hall sessions**

- **Participate in "Engineering Explorations" seminars conducted by UW Engineering faculty and graduate students**

2010 UW Mathematics Academy

- **Engage in a rich array of recreation, college preparation and industry site visits**

- **Develop friendships with college bound peers and networks with UW students and faculty**

- **Tour the campus, live in residential halls, and enjoy dining in UW restaurants**

MATHEMATICS ACADEMY
UNIVERSITY of WASHINGTON
College of Engineering

2010 UW Mathematics Academy

Academic Focus

- High achieving rising seniors will be challenged to enhance their strengths in math problem-solving, and to better prepare for the rigorous college level mathematics coursework required of UW engineering students.






2009 Math Academy Students: Academic Profile

Math Coursework completed by the end of participants Junior Year in high school:

AP Calculus	2
Calculus	2
IB SL MATH ST 1	6
Math 141 (Running Start – PreCalculus)	1
Math Anal/Trig	1
Pre-Calculus	16

- The average student GPA for students was 3.493325
- 78.6% of students had a GPA of 3.0 or Higher
- 64.3% of students had a GPA of 3.5 or Higher

MATHEMATICS ACADEMY
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2009 Math Academy Academic Skills Assessment and Results

Students completed a pre-test before the start of the Math Academy, and took this same test as a final exam at the conclusion of the program. According to pre-test and post-test results:

- **More than 96% of the class showed positive improvement in mathematical problem solving skills.**
- **57% or nearly two thirds of the class showed more than a 100% increase between their pre-test and final test scores.**
- **Overall, for all students completing MA'09, there was an average improvement of 108.6% between their pre-test and final test scores.**
- **In both tests, roughly 50% of the problems tested algebra skills and roughly 50% tested modeling skills.**

2009 Engineering Explorations Recap:

Students explored engineering research and industry opportunities through activities and events including:

- **Classroom and Laboratory Seminars** with faculty and graduate students, across 10 departments

- **Industry site visit**s to the Boeing manufacturing facility in Everett, WA and Amazon.com headquarters.

- **UW Research Laboratory tours**, facilitated by current Engineering Undergraduate Research Program students.

- **Alumni & Professional Night Event**: Evening event giving students the opportunity to learn about careers in engineering from UW alumni, and other local engineering professionals

Leisure & Recreation

During the 2009 program, students:

- **Engaged in team-building activities that helped them quickly make new friends and build good relationships over the summer**

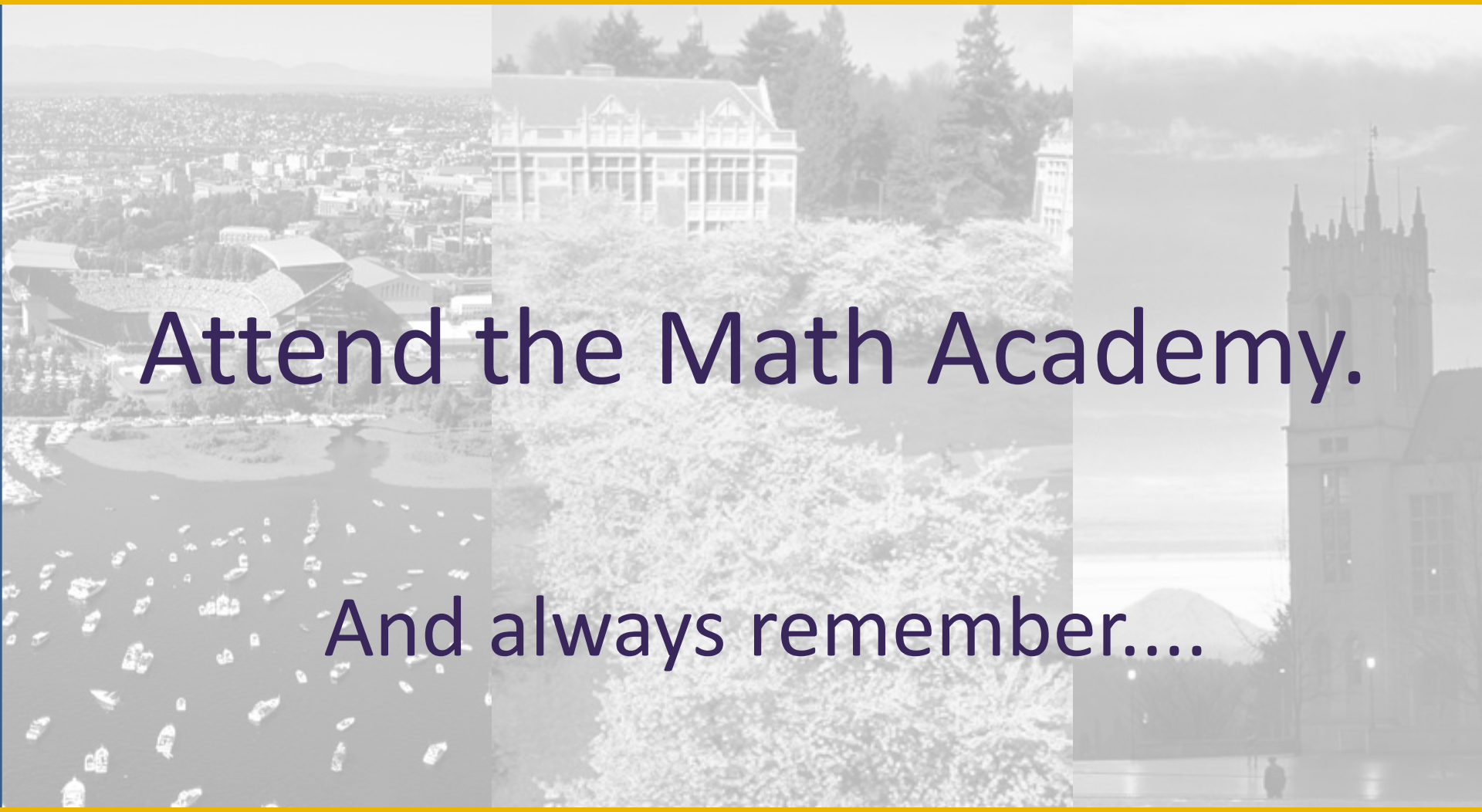
- **Experienced the beauty of nature during excursions to Snoqualmie Falls and the SoundView Camp and Retreat Ropes Course**

- **Visited local attractions such as the Museum of Flight, Downtown Seattle shopping district, Pike Place Market, Waterfront and Seattle Center**

- **Used campus recreational facilities such as the Intramural Activities Center (IMA) , Hutchinson Pool, Denny Sports field and HUB Games Room**

The UW College of Engineering requires **hard work** and **talent** to succeed.

Learn the **requirements** and **rewards** of being a UW College of Engineering student.



Attend the Math Academy.

And always remember....


W
MATHEMATICS ACADEMY
UNIVERSITY of WASHINGTON
College of Engineering
What Works, Is Work.
~ Dave Prince