Creating Comprehensive Student Support

How Reading Area Community College Uses NROC Courses to Support Accelerated Student Learning Progress in Mathematics

The NROC Project and Reading Area Community College



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HOUSEKEEPING

- Use the Q&A area to submit questions as they arise, and our team members will be actively managing questions in the Q&A and Chat boxes.
- This webinar will be archived at NROC.org, and you'll receive a follow-up email with a link to the recording and slides.
- Do you need help with Zoom? Email community@NROC.org.





WELCOME POLL

 We'd like to know who's joining us today! Please put your name, current role and institution in the chat!





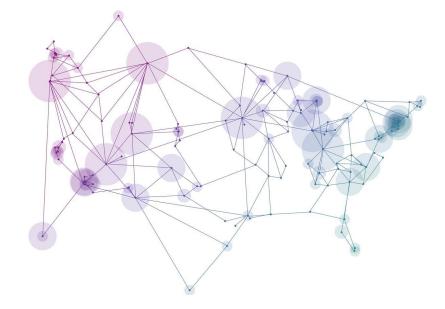


















Algebra 1

AN OPEN COURSE

Developmental English

AN INTEGRATED PROGRAM

NROC founded

OER creation and distribution

Adaptive learning development

Diversification and refinement

Scaling for equity and impact



EdReady/NROC Supports:

- Just-in-time learning and accelerated learning
- Grade-to-grade transitions
- Dual Enrollment / early
 college / P-TECH programs
- → High school completion
- College and career readiness
- Low-stakes, formative assessment for placement
- → Co-requisite education
- HSE / GED, CASAS, ACT / SAT, TABE or NRS preparation
- Teacher preparation
- Corrections Education
- Adult Education



RACC IS THE LARGEST

higher education institution in Berks County, serving over

8,500 students



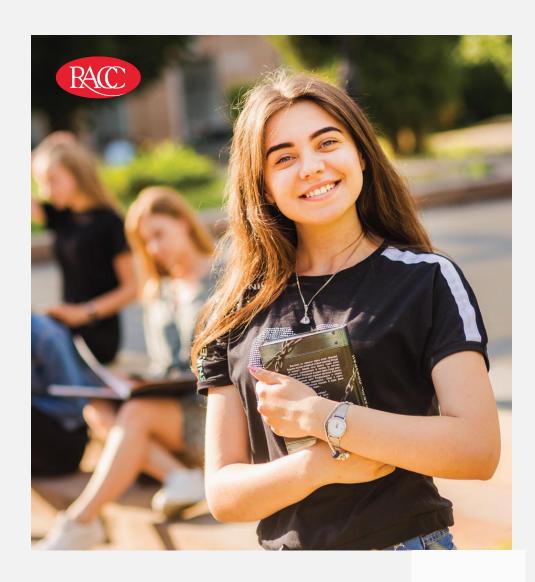
90% of RACC students stay in Berks County upon graduation 4,000
of our students live in the City of Reading

43%

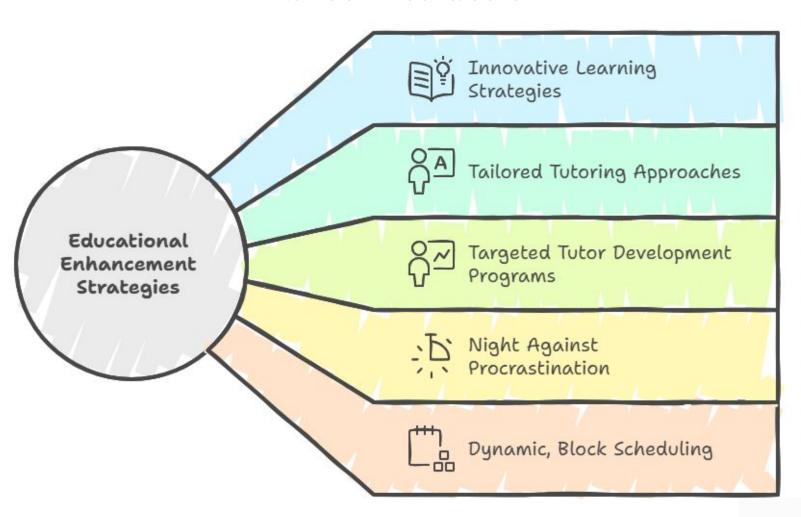
RACC is the first Hispanic Serving
Institution in PA, with over
OF OUR STUDENTS
SELF-DESIGNATING AS LATINO

Characteristics of a typical student at RACC:

- 25 years old
- 68% female
- 59% students of color
- 43% are Hispanic
- 59% receive financial aid
- 45% have an Estimated Family Contribution (EFC) of \$0.00

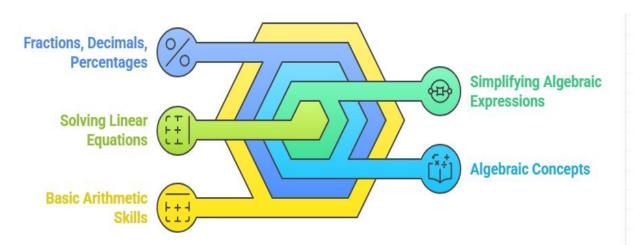


Agenda for Presentation: Using NROC to Enhance Instruction



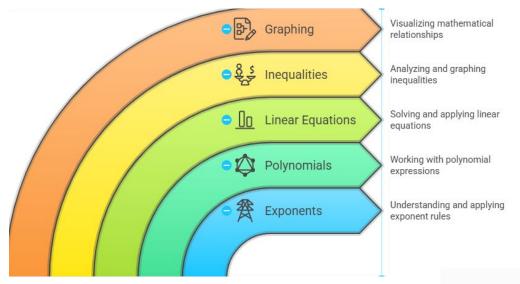


Developmental Mathematics



Basics of College Math (MAT 020)

Algebra I (MAT 030)



Note: Students earning a B or better in MAT 020 will advance directly to college-level mathematics, except for those in STEM majors. Nursing students will proceed from MAT 020 directly to a specialized math course for health science professionals.

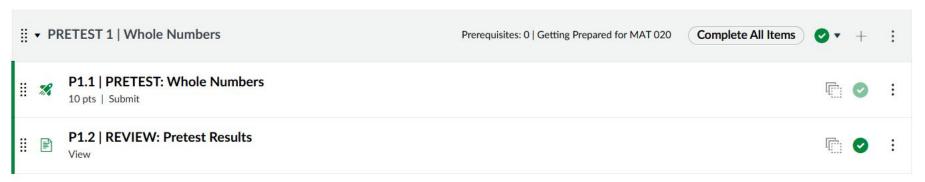
RACC | NROC

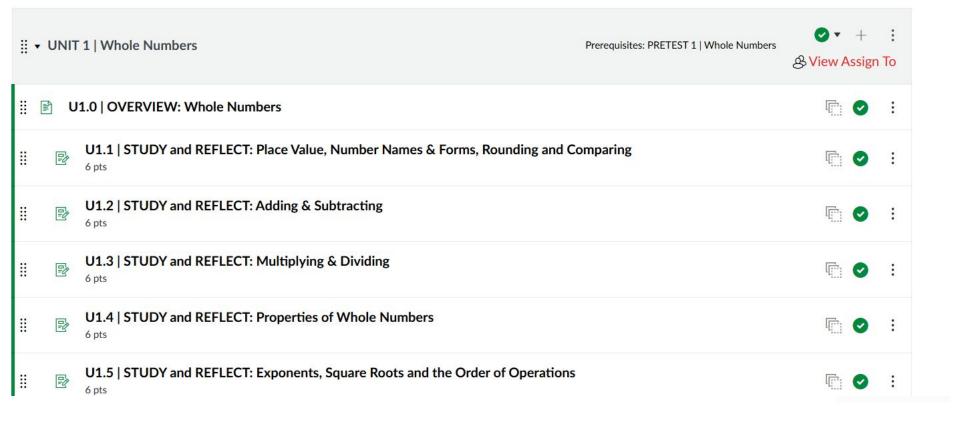
Integrating NROC Material into Developmental Mathematics Courses

- NROC content
- **Pre-Test Method** in *Basics of* College Mathematics
- All assessments in LMS
- 17 Weekly modules meet competencies
- CURRICULUM

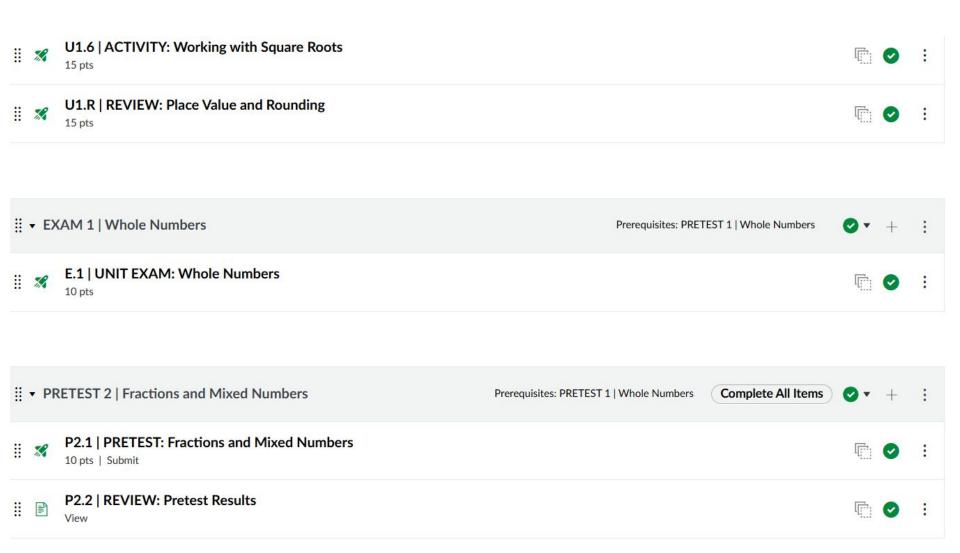
- Example of using MAT 020:
 Basics of College Mathematics
 with NROC content
- Example of using MAT 030:
 Algebra I with NROC content

MAT 020 - Basics of College Math (pt. 1)

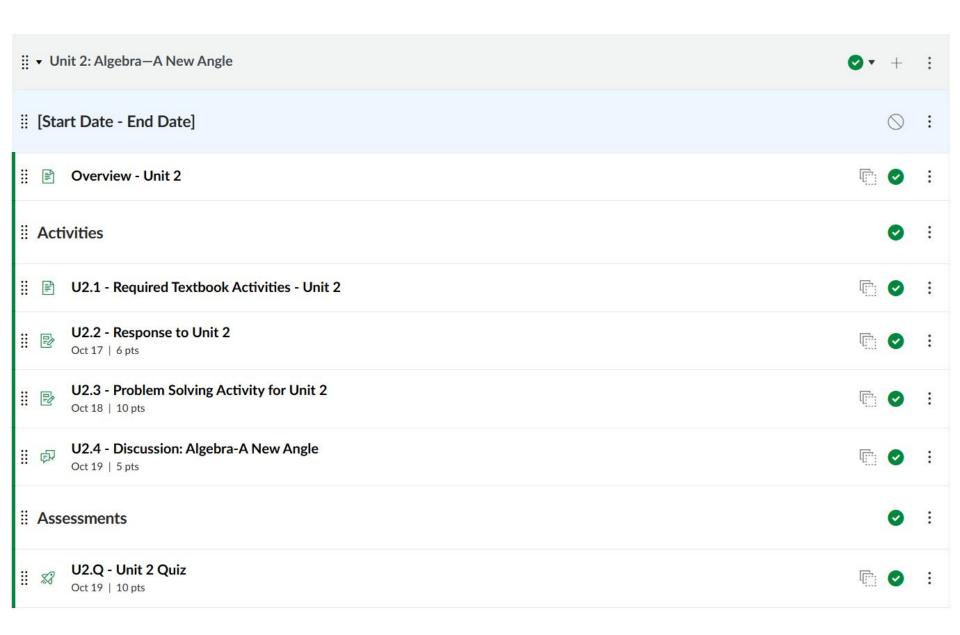




MAT 020 - Basics of College Math (pt. 2)

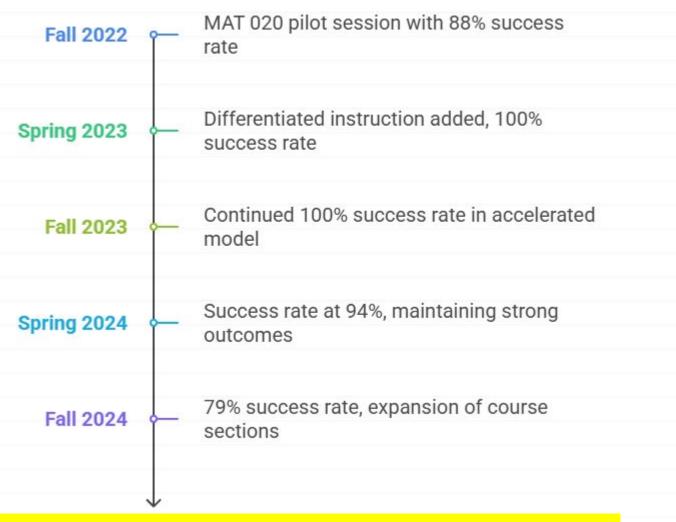


MAT 030 - Algebra I





MAT 020 Program Success and Expansion Timeline



Overall, 79% of students in the accelerated/differentiate sections were successful course completers compared to overall success rates of 58% in fall 2023.



Success Rates of MAT 030 Across Semesters

Fall 2022

Mostly full semester classes

Spring 2023

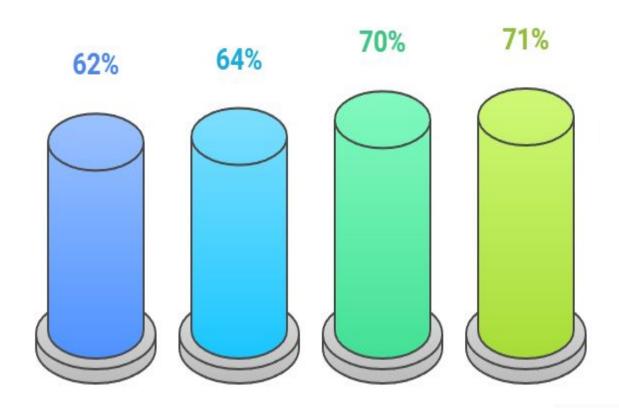
Piloted accelerated success rate high

Fall 2023

More accelerated courses instituted

Spring 2023

Accelerated 8-week courses implemented





Tutoring models

Embedded tutoring



In classroom or in Course



Connected tutors



Reach out to Students





Tutoring Modalities

In person in a center



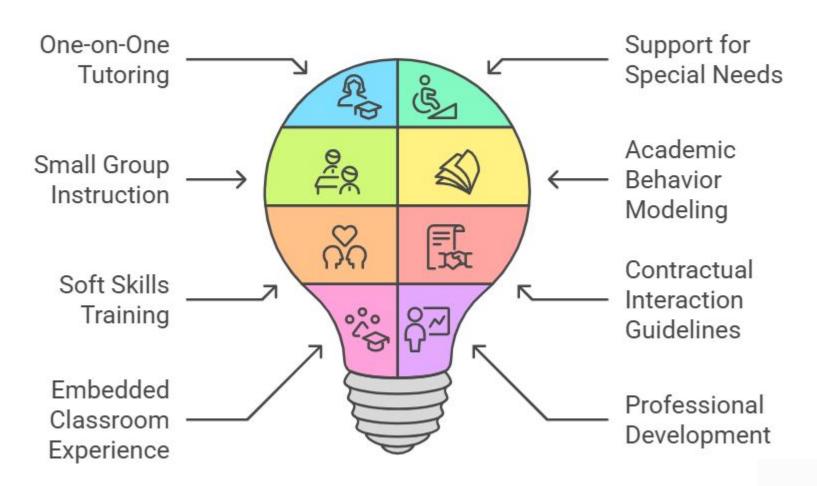
- Virtual Tutoring
 - Zoom
 - Teams
 - Microsoft Teams or Online







Tutor Training Overview: Academic and Soft Skills



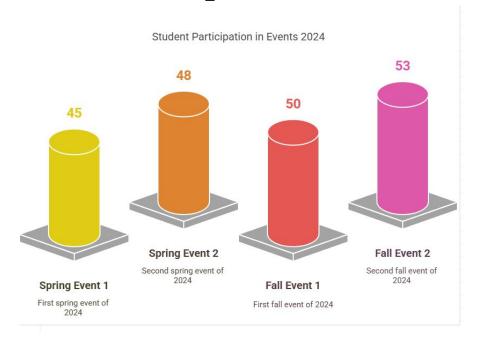
Student Feedback on Tutoring





Night Against Procrastination

Students receive assistance with past and current assignments and register for next semester classes. Dinner and childcare provided free of charge.

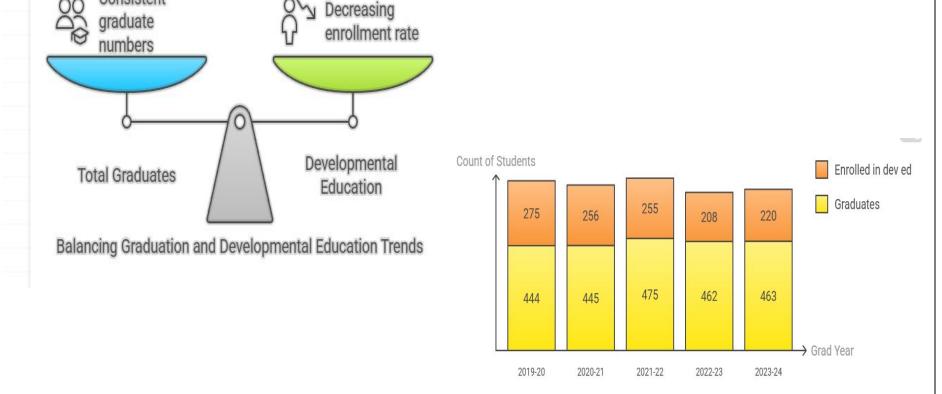


Research shows that failure to enroll is one factor that contributes to students never completing a multilevel sequence of developmental education courses (Bailey, Jeong, & Cho, 2009).

During the fall events we added an academic advising and scheduling component. 48 % of the students who attended also registered for the spring and summer semesters.

Students Graduating who began in Developmental Education

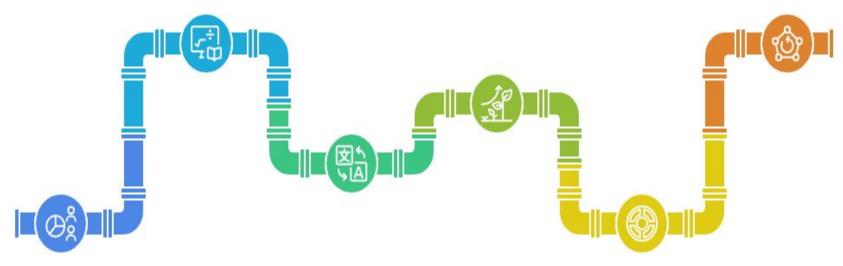
Consistent



Associate Degree Graduates by Grad Year



Strategic Initiatives for Student Success



01

Review Student Demographics

Analyzing student demographics and current practices 02

Assess Teaching Practices

Evaluating and improving teaching methods 03

Implement Culturally Responsive Practices

Integrating culturally responsive strategies

04

Train Faculty on Growth Mindset

Educating faculty on growth mindset techniques 05

Blueprint Courses for Success

Designing courses to enhance success rates 06

Implement Case Management Approach

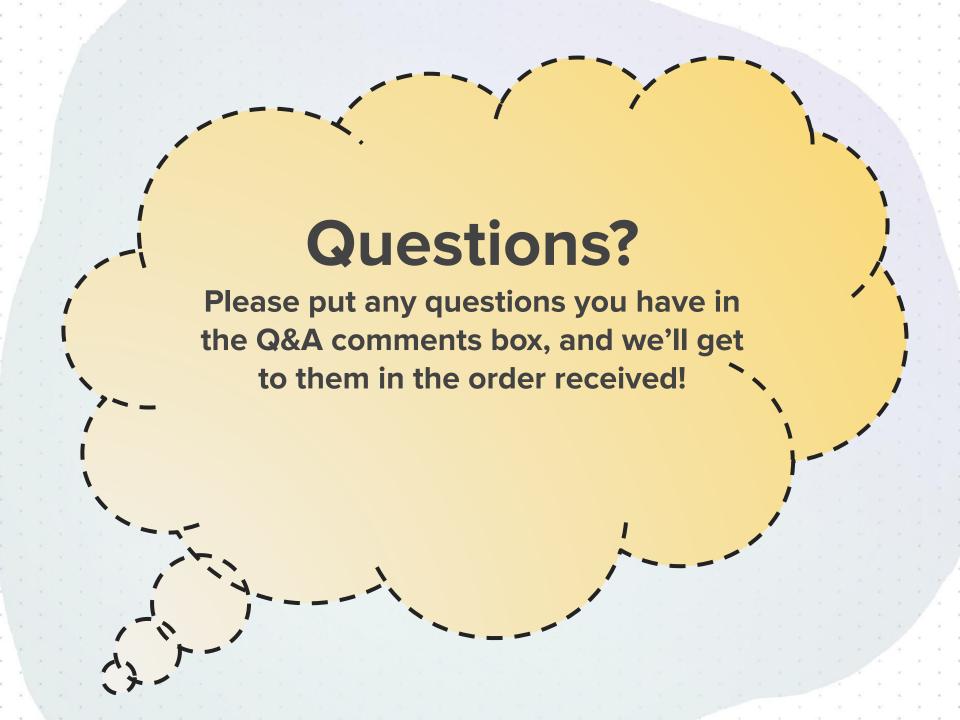
Introducing a new system for student support

AY 2024-2025 Course Data

- 1. MAT 020 Basics of College Mathematics
 - a. Fall Success Rate: 70.7%
 - b. Spring Success Rate: 79.4%
 - c. AY 75.5% success rate
 - d. 59% of students were approved to skip to college level mathematics due to earning a grade of B or better in course (This includes the differentiated/accelerated MAT 020 model)
- 2. MAT 030 Algebra I
 - a. Fall Success Rate: 72.5%
 - b. Spring Success Rate: 73.9%
 - c. AY 73.2% Success Rate
 - d. Used new curriculum from NROC scaled accelerated format

Note: There is not a floor in placement testing for developmental mathematics.

For AY 2025-2026 we have linked our course competencies to our assessments and are able to determine if students are meeting the competencies at any given time.



Thanks for joining us today!

GET IN TOUCH:

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Get in touch with our team to schedule a demo and see what EdReady and NROC could do for your institution!





