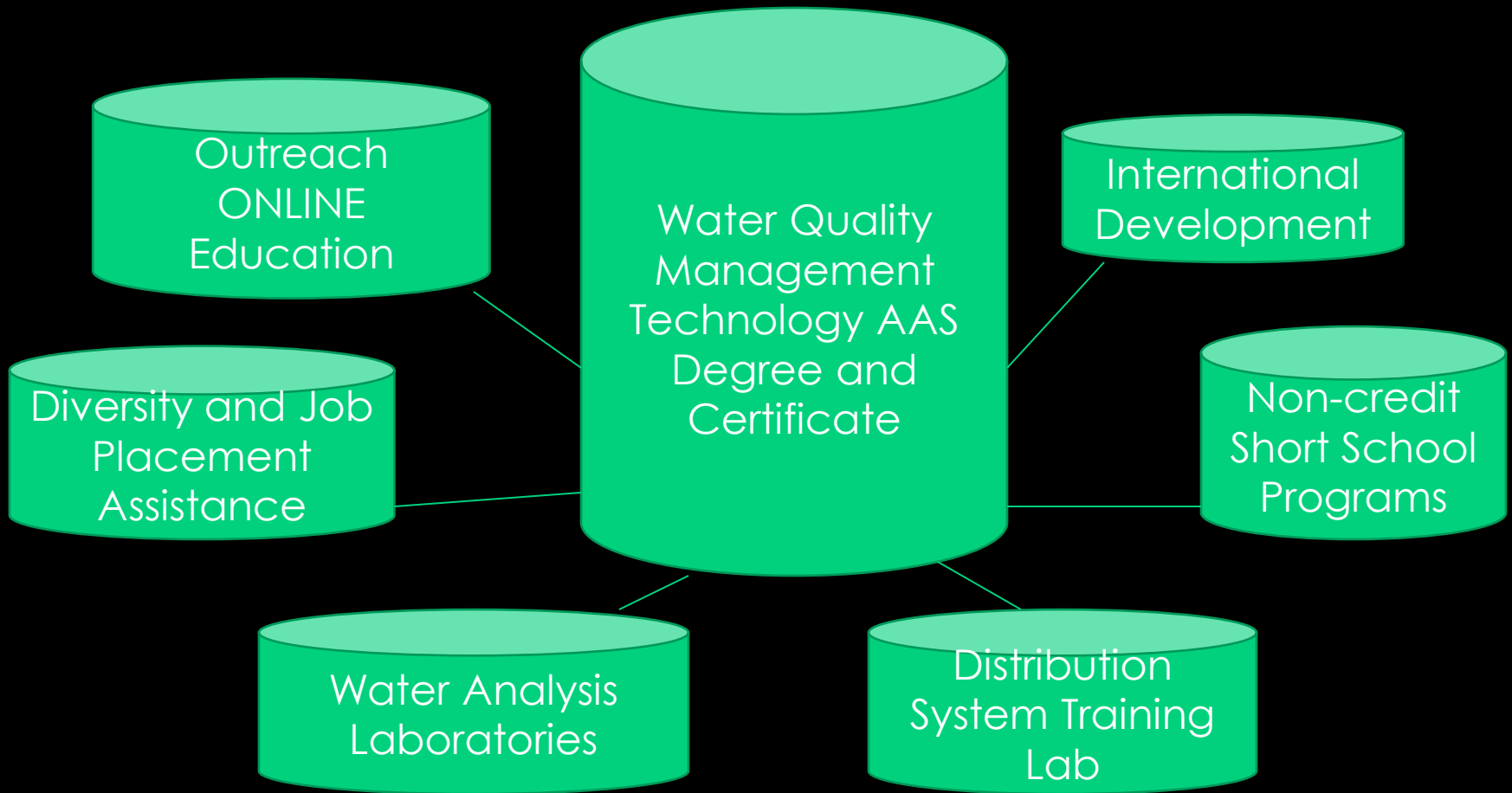




WATER QUALITY MANAGEMENT TECHNOLOGY

At Red Rocks Community College – Lakewood Campus

PROGRAM DIVISIONS



WATER QUALITY MANAGEMENT

▣ **AAS Degree: Core Course Requirements**

- WQM 100 Introduction to Water Quality
- WQM 105 Specific Calculations
- WQM 119 Basic Water Analysis
- WQM 120 Equipment Maintenance
- WQM 126 Safety and Security Systems
- WQM 200 Hydraulics
- WQM 206 Design Interpretations
- WQM 216 Biological and Bacteriological Analysis
- WQM 217 Disinfection Techniques

Total 34 Credits

WQM ELECTIVES

12 CREDITS

- ▣ WQM 109 Distribution Systems
- ▣ WQM 118 Wastewater Collection Systems
- ▣ WQM 121 Environmental Sampling and Volume Measurement
- ▣ WQM 122 Instrumentation and Electrical Control
- ▣ WQM 123 Reuse Systems
- ▣ WQM 124 C and D Review for Water Treatment
- ▣ WQM 125 C and D Review for Wastewater Treatment
- ▣ WQM 130 Water Chemistry
- ▣ WQM 131 Solids Waste Management
- ▣ WQM 150 Troubleshooting
- ▣ WQM 165 Water Law
- ▣ WQM 169 International Development
- ▣ WQM 207 Activated Sludge Systems
- ▣ WQM 212 Drinking Water Regulations
- ▣ WQM 224 A and B Review for Water Treatment
- ▣ WQM 225 A and B Review for Wastewater Treatment
- ▣ WQM 230 Industrial Treatment and Monitoring
- ▣ WQM 280 Internships
- ▣ WQM 285 Independent Study

GENERAL EDUCATION REQUIREMENTS

- ▣ ENG 121 – English Composition, COM 125 - Interpersonal Communication or ENG 131 – Technical Writing (3 credits)
- ▣ MAT 107 – Career Math (min. requirement) , MAT 121 – College Algebra (strongly recommended) (3 credits)
- ▣ Humanities and Sciences (6 credits)
 - Any 1 class from: Humanities, Social Sciences or Behavioral Sciences but NOT GIS
 - Physical/Life Science course strongly recommended as one option
- ▣ GIS 101 – Introduction to Geographic Information Systems (3 credits)
- ▣ BUS 121 – Basic Workplace Skills (1 credit)

Total 16 Credits minimum

Total 62 Credits for the AAS Degree

ALONG THE WAY CERTIFICATES

What are Certificates? The Water Quality Management Program has developed **8** different Certificate in addition to our AAS degree.

Introduction
to Water
Treatment

Introduction
to Wastewater
Treatment

Wastewater
Treatment Operator
Certification (D-A)

Experience
and
Education

Mathematics
in Water
Quality

Water Treatment
Operator
Certification (D-A)

Water
Distribution
and Collection

Laboratory
Analysis

DEDICATED WATER ANALYSIS LABORATORY



MOBILE WATER QUALITY LABORATORY

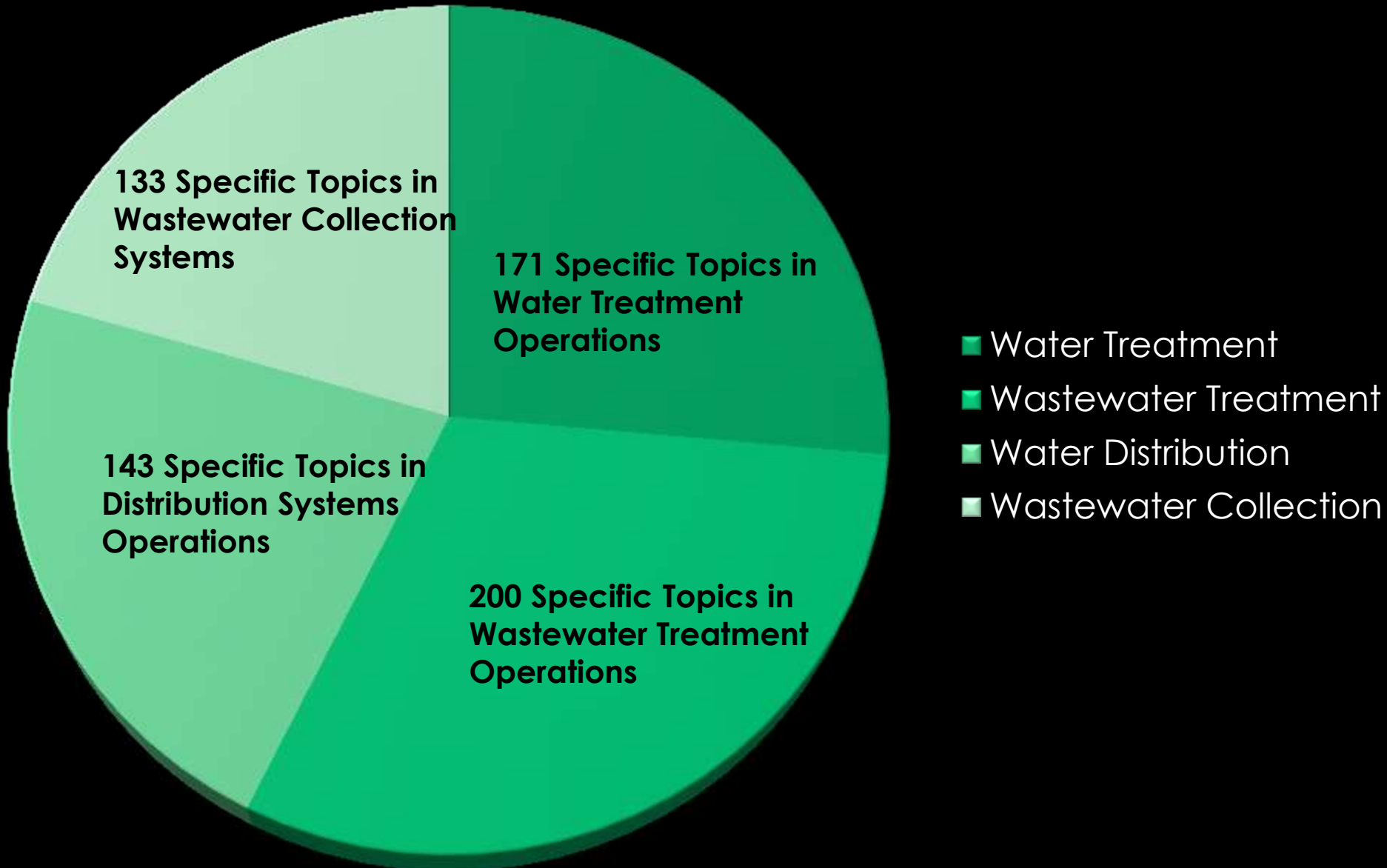


Distribution System Lab and Educational Support

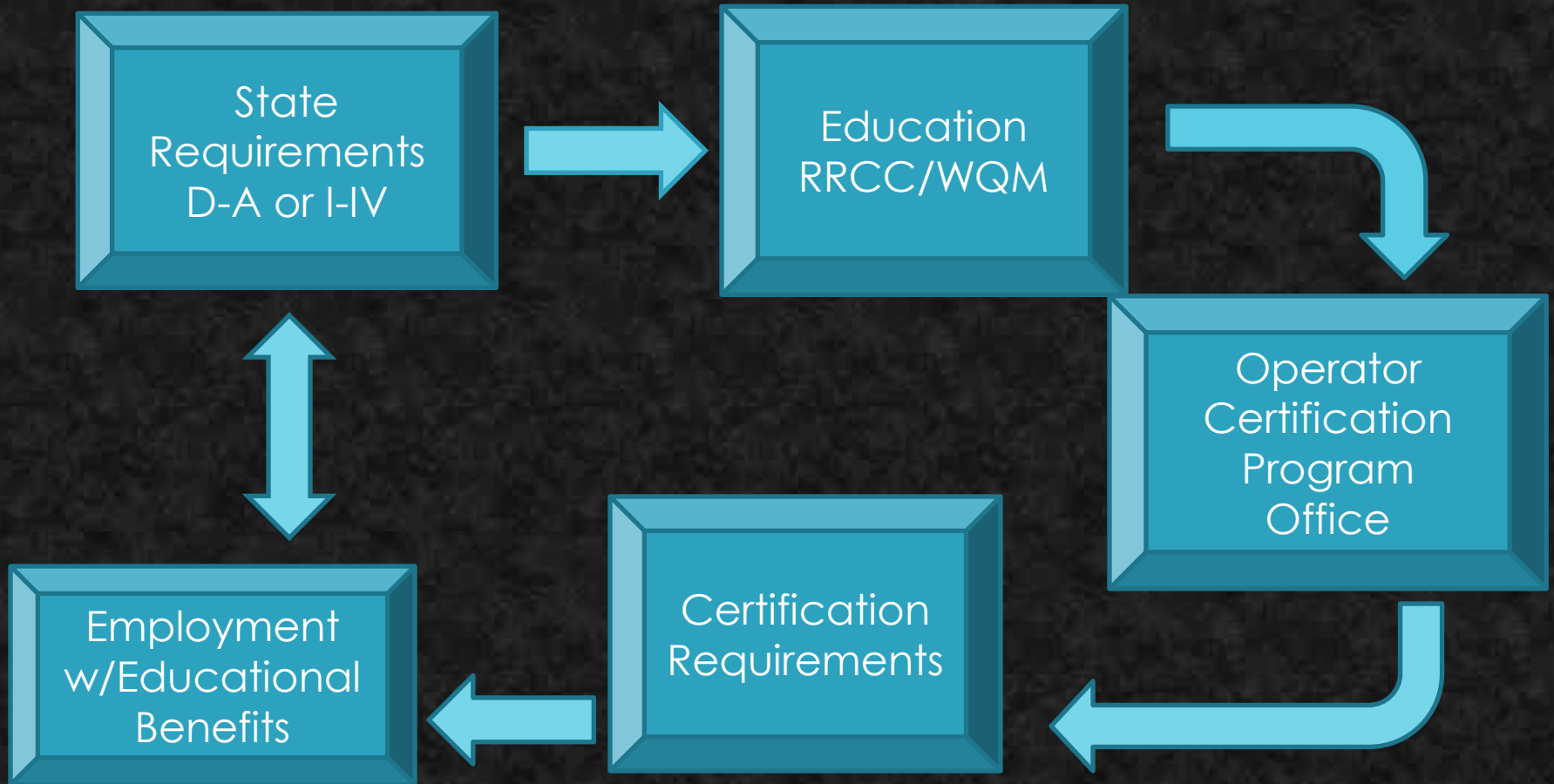




Need To Know Criteria



HOW IT WORKS



STABLE CAREERS AND NEEDED WORKFORCE



National Data Source: [Bureau of Labor Statistics, Office of Occupational Statistics and Employment Projections](#)

State Data Source: [Colorado Department of Labor and Employment, Labor Market Information](#)

PROGRAM OPTIONS SCHEDULE AND DELIVERY FORMATS

- Many classes are offered starting at 6pm, and meet once per week
 - Can accommodate many working individuals
- Most of the WQM curriculum has been formatted for online and/or hybrid delivery
- Introducing more options soon!
 - Rotating online class schedules, and condensed state license review courses
- RRCC is affordable!
 - \$174/credit, \$230.65/online credit (CO resident cost)
- WQM instructors bring real world experience and hands-on learning to classrooms

ADDITIONAL RESOURCES

- Financial Aid is available to those who qualify
- Your work experience could count towards your degree!
 - CPLs (Credit for Prior Learning)
- Tutoring, Writing Center, Career Success Center also on campus

PENDING: BACHELORS OF APPLIED SCIENCE

- Fall 2016 tentative start of 300/400 classes

Courses being developed:

- WQM 311: Intro Environmental Water Acts
- WQM 312: Intro Safe Drinking Water Act
- WQM 327: Water Industry Management
- WQM 345: Principles of Hydrology
- WQM 421: Environmental Sampling and Containment
- WQM 427: Managing Water Projects
- WQM 428: Water Data Management and Analysis
- WQM 445: Water Toxicity Impacts on the Environment and Human Health
- WQM 455: Interrelationships Between Humans and Water Ecosystems
- WQM 460: Source Water Management
- WQM 489: Senior Internship OR
- WQM 480: Senior Capstone

THANK YOU!



Any questions?