

John Carroll University
Department of Education
Adolescent Young Adult-Mathematics
38 credit hours
Licensure Test: OAE 027

| 4 DIGIT | 3 DIGIT | COURSE NAME | HOURS |
|--------------------|--------------------|--|---------|
| CS 1280 CS 1281 | CS 128 CS 128 L | SCI: INTRODUCTION TO SOFTWARE APPLICATION DEVELOPMENT & LAB SECTION | 3+1 |
| OR CS 1500 | OR CS 150 | OR DATABASE SYSTEMS | OR 3 |

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|-----------|---------------------|--|---|
| MT 1350 | MT 135 | SCI: CALCULUS AND ANALYTIC GEOMETRY I | 4 |
| MT1360 | MT 136 | SCI: CALCULUS AND ANALYTIC GEOMETRY II | 4 |
| MT 2330 | MT 233 | SCI: CALCULUS AND ANALYTIC GEOMETRY III | 4 |
| MT 2240 | MT 224 | BASIC PROBABILITY | 1 |
| DATA 1220 | DATA 122, MT 122 | QA: ELEMENTARY STATISTICS | 3 |
| MT 2420 | MT 242 | INTRODUCTION TO LINEAR ALGEBRA | 3 |
| MT 3010 | MT 271, MT 301 | METHODS IN PURE MATHEMATICS | 3 |
| MT 4310 | MT 431 | INTRODUCTION TO REAL ANALYSIS | 3 |
| MT 4410 | MT 441 | INTRODUCTION TO ABSTRACT ALGEBRA | 3 |
| MT 4550 | MT 450 | EUCLIDEAN & NON-EUCLIDEAN GEOMETRY | 3 |
| MT 4440 | MT 440 | ELEMENTARY FUNCTIONS AND ALGEBRAIC PROCESSES FROM AN ADVANCED VIEWPOINT | 3 |

Revised 8/23/2023