

| GASTON COLLEGE Civil Engineering Technology Associate in Applied Science | | | | NORTH CAROLINA A&T STATE UNIVERSITY Geomatics Bachelor of Science | | | |
|--|-----|-------------------------------------|-----------|---|---------|-----------------------------------|-----------|
| ACA | 122 | College Transfer Success | 1 | FRST | 101 | College Success | 1 |
| CEG | 111 | Intro to GIS and GNSS | 4 | GEOM | 310 | Geographic Information Systems | 3 |
| CEG | 115 | Intro to Tech & Sustainability | 3 | CM | 100 | Intro to Technology | 3 |
| ENG | 111 | Writing and Inquiry | 3 | ENGL | 100 | Ideas & Their Expressions I | 3 |
| MAT | 171 | Precalculus Algebra | 4 | MATH | 103 | College Algebra & Trigonometry I | 3 |
| ENG | 112 | Writing/Research in the Disc | 3 | ENGL | 101 | Ideas & Their Expressions II | 3 |
| MAT | 172 | Precalculus Trigonometry | 4 | MATH | 104 | College Algebra & Trigonometry II | 3 |
| PHY | 151 | College Physics I | 4 | PHYS | 225/235 | College Physics I | 4 |
| SRV | 110 | Surveying I | 4 | GEOM | 204/214 | Fndmntls of Surveying and Lab | 3 |
| CEG | 151 | CAD for Engineering Technology | 3 | CST | 140 | Intro to Computer Programming | 3 |
| CEG | 235 | Project Management/Estimating | 3 | | | | |
| CEG | 210 | Construction Materials & Methods | 3 | CM | 190 | Construction Materials | 3 |
| EGR | 250 | Statics/Strengths of Materials | 5 | CM | 250T | Statics/Strengths of Materials | 3 |
| SRV | 111 | Surveying II | 4 | GEOM | 205 | Surveying II | 4 |
| PHY | 152 | College Physics II (Recommended) | 4 | PHYS | 226/236 | College Physics II | 4 |
| CEG | 211 | Hydrology & Erosion Control | 3 | | | | |
| CEG | 212 | Intro to Environmental Tech | 3 | | | | |
| CIV | 111 | Soils and Foundations | 4 | GEEN | 111T | Soils and Foundations | 3 |
| CIV | 250 | Civil Eng Tech Project | 2 | | | | |
| HIS | 111 | World Civilizations I (Recommended) | 3 | HIST | 206 | Pre-Modern History | 3 |
| PHI | 240 | Intro to Ethics | 3 | PHIL | 104 | Intro to Ethics | 3 |
| | | Total Hours | 70 | | | Total Hours | 52 |

Additional Transfer Courses that can be Applied

| GASTON COLLEGE | | | | NORTH CAROLINA A&T STATE UNIVERSITY | | | |
|----------------|-----|--------------------|----------|-------------------------------------|-----|--------------------|-----------|
| MATH | 271 | Calculus I | 4 | MATH | 131 | Calculus I | 4 |
| MATH | 272 | Calculus II | 4 | MATH | 132 | Calculus II | 4 |
| | | Total Hours | 8 | | | Total Hours | 60 |

Maximum Transferable Credits to N.C. A&T is 64 credit Hours

| REMAINING REQUIRED COURSES TO COMPLETE DEGREE PROGRAM REQUIREMENTS <u>(In addition to any requirements above not fulfilled)</u> | | | | | | | |
|---|-----|-------------------------------|---|------|---------|---------------------------------------|------------|
| GEOM | 107 | Intro to UAVs | 3 | GEOM | 470 | Boundary and Legal Principles | 3 |
| GEOM | 271 | Land Surveying Systems | 3 | GEOM | 471 | Professionalism & Ethics in GEOM | 1 |
| GEOM | 307 | Automated Surveying & Mapping | 4 | GEOM | 496 | Senior Project I | 1 |
| GEOM | 320 | Intro to Photogrammetry | 3 | GEOM | 499 | Senior Project II | 1 |
| GEOM | 340 | Adjustment Computations I | 3 | | | African American Elective | 3 |
| GEOM | 341 | Adjustment Computations II | 3 | | | Global Awareness Elective | 3 |
| GEOM | 350 | Subdivision Design | 3 | | | Natural Science Elective | 3 |
| GEOM | 360 | Geodesy | 3 | MATH | 351 | Linear Algebra & Matrix Theory | 3 |
| GEOM | 366 | Hydraulics & Piping Systems | 2 | GEOM | 204/214 | Fund of Surveying Theory & Lab | 3 |
| GEOM | 367 | Hydrology | 2 | | | | |
| GEOM | 400 | Fund of Land Surveying Review | 1 | | | | |
| GEOM | 420 | Analytical Photogrammetry | 3 | | | | |
| GEOM | 460 | Satellite Positioning Systems | 3 | | | | |
| GEOM | 465 | Advanced UAV Processes | 3 | | | | |
| | | | | | | Total Additional Hours | 60 |
| | | | | | | REQUIRED TOTAL HOURS FOR MAJOR | 120 |