

Residential Building Design Technology
Associate of Applied Science Degree

RBD3

The program would prepare students to fill a demand in the residential building design industry for highly skilled design technicians. This position differentiates from the existing architectural drafting program by providing a more specialized education that focuses solely on residential architecture. A survey of Georgia Piedmont Technical graduates working in industry uncovered the deficiencies of a dual-track drafting specialization that teaches broad mechanical and architectural drafting techniques rather than focused instruction on residential building systems. This program seeks to concentrate instruction on the development of skillsets that will best serve the metro-Atlanta demographic. Less focus on basic drafting and more focus on problem-solving for designers has been calculated into the student learning outcomes for the program. Design technicians will study more design topics including history, presentation techniques and design theory, as well as an introduction to the design of structures and systems. Students will also acquire proficiencies in working with presentation software, which is a job requirement for more entry-level positions in this field.

Curriculum

General Education Core	19
Area I: Language Arts/Communication	3
ENGL 1101 Composition and Rhetoric (3)	
Area II: Social/Behavioral Sciences <i>(Choose ONE course below.)</i>	3
ECON 1101 Principles of Economics (3)	
ECON 2105 Principles of Macroeconomics (3)	
ECON 2106 Principles of Microeconomics (3)	
HIST 1111 World History I (3)	
HIST 1112 World History II (3)	
HIST 2111 American History I (3)	
HIST 2112 American History II (3)	
POLS 1101 American Government (3)	
PSYC 1101 Introduction to Psychology (3)	
SOC 1101 Introduction to Sociology (3)	
Area III: Natural Sciences / Mathematics	10
MATH 1111 College Algebra (3)	
MATH 1113 Precalculus (3)	
PHYS 1110 Conceptual Physics (3) + PHYS 1110L Conceptual Physics Lab (1)	
Area IV: Humanities/Fine Arts <i>(Choose ONE course below.)</i>	3
ARTS 1101 Art Appreciation (3)	
ENGL 2130 American Literature (3)	
ENGL 2310 English Literature from the Beginnings to 1700 (3)	
HUMN 1101 Introduction to Humanities (3)	
MUSC 1101 Music Appreciation (3)	
RELG 1101 Introduction to World Religions (3)	

Occupational Courses**42****Required Courses:**

- RBDT 1100 Introduction to Design (4)
- RBDT 1200 Fundamentals of Architectural Drawing (4)
- RBDT 1210 Applied History of Residential Design (4)
- RBDT 1300 Residential Composition Design (4)
- RBDT 1310 Wood Construction Design (4)
- RBDT 1320 Sustainable Design (4)
- RBDT 2100 Internship (2)
- RBDT 2110 Portfolio (4)
- RBDT 2120 Presentation Techniques (4)
- RBDT 2200 Capstone Project (4)
- RBDT 2210 HVAC/Plumbing/Electrical Design (4)

Total Credit Hour (minimum):**61**