

# ARCHITECTURE (ARC)

Division: Mathematics, Engineering Technologies and Computer Sciences (METCS) Division

## ARC 101 Architectural Design I (4 Credits)

This course is an introduction to architectural design with emphasis on basic design content, including the logical arrangement of elements in space. A series of projects are assigned and reviewed for format, presentation and completeness.

**Pre-requisites:** ((Companion Arithmetic with a score of 069 and Companion Elementary Algebra with a score of 076) or (Arithmetic (Next-Gen) with a score of 260 and Quant,Algebra,Stats(Next-Gen) with a score of 260) or (Bilingual Computation with a score of 20 and Bilingual Algebra with a score of 19) or Move Up Math 092 with a score of P or MTH 092 Summer Bridge with a score of P or MTH 092 with a minimum grade of C or TRANSFERRED COLLEGE LEVEL MATH with a score of 898 or Elig. for Math 100,101,103 with a score of 905 or Pre-reg. COLG math waiver only with a score of 908 or SAT/ACT Elig for Mth 100 with a score of 994) or COLLEGE DEGREE with a score of 988 or SAT/ACT Elig Eng101 Mth100 with a score of 995 or Transf. Eng 101 Mth 100 with a score of 999

## ARC 102 Architectural Design II (4 Credits)

This course is a continuation of ARC 101. Assigned projects include three-dimensional representations. Students learn how to construct perspectives and build architectural models.

**Pre-requisites:** ARC 101 with a minimum grade of C

## ARC 111 History of Architecture I (3 Credits)

This is a course in the history of architecture, beginning with ancient Egyptian architecture and ending with the Industrial Revolution era architecture of the eighteenth century. Major emphasis is placed on historical periods such as Byzantine, Romanesque, Gothic, Renaissance and Baroque. Particular works of classical architects are also studied.

**Pre-requisites:** (Companion Essay with a score of 08 or Write Placer Essay with a score of 07 or Write Placer Essay with a score of 08 or Move Up English 096 with a score of P or ENG 096 Summer Bridge with a score of P or TRANSFERRED ENG 101 with a score of 889 or Elig. for Eng 101 with a score of 904 or Pre-reg. Eng 101 waiver only with a score of 906 or SAT/ACT Elig for Eng 101 with a score of 993 or TRANSFERRED ENG 102 with a score of 998) or COLLEGE DEGREE with a score of 988 or SAT/ACT Elig Eng101 Mth100 with a score of 995 or Transf. Eng 101 Mth 100 with a score of 999

## ARC 112 History of Architecture II (3 Credits)

This is a course on historical developments in architecture from the nineteenth century to the present post-modern era. Major emphasis is placed on architectural movements in Europe, namely the Beaux-Arts and Art Nouveau in France, the Arts and Crafts in England, the Bauhaus in Germany and also the international style of architecture in both hemispheres. Works of noted architects are given special review.

**Pre-requisites:** ARC 111 with a minimum grade of C

## ARC 131 Construction Methods I (3 Credits)

This course introduces the concepts of building construction principles and processes including foundations, walls, floors and roof systems. Materials considered are wood, masonry, steel and concrete. Also discussed are site preparation and building code requirements.

**Pre-requisites:** (Companion Arithmetic with a score of 069 and Companion Elementary Algebra with a score of 109) or (Arithmetic (Next-Gen) with a score of 260 and Quant,Algebra,Stats(Next-Gen) with a score of 275) or (Bilingual Computation with a score of 20 and Bilingual Algebra with a score of 26) or MTH 100 with a minimum grade of C

## ARC 132 Construction Methods II (3 Credits)

This course is a continuation of ARC 131 and focuses on the details of buildings including windows, doors and specialty construction such as stairs. Also discussed are thermal and moisture protection, finishing and electrical and plumbing systems.

**Pre-requisites:** ARC 131 with a minimum grade of C

## ARC 201 Architectural Design III (4 Credits)

This is the third course in the architectural design sequence. Projects involve researching and analyzing programmatic requirements of a design problem. Students generate multiple design solutions and present them using graphic methods appropriate to the solution.

**Pre-requisites:** ARC 102 with a minimum grade of C

## ARC 202 Architectural Design IV (4 Credits)

This is a design drawing workshop where the student selects an architectural problem and develops the solution by investigating design, structure, costs and environment. The student then presents his/her solution through two and three-dimensional drawings.

**Pre-requisites:** ARC 201 with a minimum grade of C

## ARC 290 Honors Capstone Project-Archit (3 Credits)