Madina Academy Upper School

Suggested Dual Enrollment Courses

Note that:

* Although some courses transfer to UCONN, they might not transfer to other universities.
* Although some courses transfer to UCONN, they might not help in graduating early if they are not part of graduation requirements for the intended major.
* Some courses (at the community colleges) have prerequisites. Always check the prerequisites of a course. They are not listed in this document.
* UCONN’s General Education Requirements require that students take at least 6 credits (2 classes) in each content area. However, students cannot take two courses in the same content area that are from the same subject. For example, students cannot take two Sociology courses to satisfy content area 1. They can take 1 Sociology course and 1 Political Science course.

**English**

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| **Course** **No.** | **Course Name** | **Comments** |
| ENG 101 | Composition | **Required**. Should be taken first semester if placed into it by the Accuplacer placement test.ENG 101 & 110 together transfer to UCONN as ENGL 1010 – Seminar in Academic Writing which is a graduation requirement. |
| ENG 110 | Introduction to Literature | **Required.**ENG 101 & 110 together transfer to UCONN as ENGL 1010 – Seminar in Academic Writing which is a graduation requirement. |
| ENG 202 | Technical Writing | Transfers to UCONN ENGL 91000 |
| ENG 282/283 | Creative Writing | Transfers to UCONN ENGL 1701 |
| ENG 245 | Early Western Literature | Transfers to UCONN ENGL 1101 – Classical and Medieval Western LiteratureSatisfies UCONN’s Content Area One – Arts & Humanities |
| ENG 246 | Modern Western Literature | Transfers to UCONN ENGL 1103 – Renaissance and Modern Western LiteratureSatisfies UCONN’s Content Area One – Arts & Humanities |

**Math**

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| **Course** **No.** | **Course Name** | **Comments** |
| MAT 146 | Math for Liberal Arts | Transfer to UCONN MATH 1030Q – Elementary Discrete Mathematics |
| MAT 158 | Functions, Graphs and Matrices | Transfer to UCONN MATH 1070Q – Mathematics for Business & Economics |
| MAT 165 | Elementary Statistics with Computer Applications | Transfer to UCONN STAT 1000 Q – Introduction to Statistics |
| MAT 185 | Trigonometric Functions | Transfer to UCONN MATH 1060Q - Precalculus |
| MAT 186 | Precalculus | Transfer to UCONN MATH 1060Q - Precalculus |
| MAT 230 | Applied Calculus with a Modeling approach | Transfer to UCONN MATH 1071Q – Calculus for Business & Economics |
| MAT 254 | Calculus I | Transfer to UCONN MATH 1131Q – Calculus I |
| MAT 256 | Calculus II | Transfer to UCONN MATH 1132Q – Calculus II |
| MAT 268 | Calculus III: Multivariable | Transfer to UCONN MATH 2110Q – Multivariable Calculus |
| MAT 274 | Linear Algebra | Transfer to UCONN MATH 2210Q – Applied Linear Algebra |
| MAT 285 | Differential Equations | Transfer to UCONN MATH 2410Q – Elementary Differential Equations |
| MAT 287 | Foundations of Mathematics | Transfer to UCONN MATH 2710 – Transition to Advanced Mathematics |

**Science/Technology/Engineering**

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| **Course** **No.** | **Course Name** | **Comments** |
| **Biology** |
| BIO 105 | Introduction to Biology | Transfers to UCONN BIOL 1102 – Foundations of Biology |
| BIO 115 | Human Biology | Transfers to UCONN BIOL 1103 – The Biology of Human Health & Disease |
| BIO 121 | General Biology I | Transfers to UCONN BIOL 1107 – Principles of Biology ISuggested Majors: Pre-Pharmacy, Pre-Med, Pre-Dental |
| BIO 122 | General Biology II | Transfers to UCONN BIOL 1108 – Principles of Biology IISuggested Majors: Pre-Med, Pre-Dental |
| BIO 111 | Introduction to Nutrition | Transfers to UCONN NUSC 1165 – Fundamentals of NutritionSatisfies UCONN’s Content Area 3 – Science & Technology |
| BIO 235 | Microbiology | Transfers to UCONN MCB 2610 – Fundamentals of MicrobiologySuggested Majors: Pre-Pharmacy |
| **Chemistry** |
| CHE 111 | Concepts of Chemistry | Transfers to UCONN CHEM 1122 – Chemical Principles & Applications |
| CHE 121 | General Chemistry I | Transfers to UCONN CHEM 1127Q – General ChemistrySuggested Majors: Engineering, Pre-Pharmacy, Pre-Med, Pre-Dental |
| CHE 122 | General Chemistry II | Transfers to UCONN CHEM 1127Q – General ChemistrySuggested Majors: Pre-Pharmacy, Pre-Med, Pre-Dental |
| CHE 210 | Introduction to Organic Chemistry | Transfers to UCONN CHEM 2241/2242 – Organic Chemistry Laboratory |
| **Physics** |
| PHY 110 | Introductory Physics | Transfers to UCONN PHYS 1010Q – Elements of Physics |
| PHY 121 | General Physics I | Transfers to UCONN PHYS 1201Q – General PhysicsSuggested Majors: Engineering, Pre-Pharmacy, Pre-Med, Pre-Dental |
| PHY 122 | General Physics II | Transfers to UCONN PHYS 1202Q – General PhysicsSuggested Majors: Engineering, Pre-Med, Pre-Dental |
| PHY 221 | Calculus-Based Physics I | Transfers to UCONN PHYS 1501Q – Physics for Engineers ISuggested Majors: Engineering, Pre-Med, Pre-Dental |
| PHY 222 | Calculus-Based Physics II | Transfers to UCONN PHYS 1502Q – Physics for Engineers IISuggested Majors: Engineering, Pre-Med, Pre-Dental |
| PHY 223 | Calculus-Based Physics III | Transfers to UCONN PHYS 2300 – The Development of Quantum Physics |
| **Engineering** |
| EGR 221 | Introduction to Electric Circuit Analysis | Transfers to UCONN ECE 2001 – Electrical CircuitsSuggested Majors: Electrical/Computer/Mechanical Engineering |
| EGR 214 | Engineering Thermodynamics | Transfers to UCONN ME 2233 – Thermodynamic PrinciplesSuggested Majors: Mechanical Engineering |
| EGR 211 | Engineering Statics | Transfers to UCONN CE 2110 – Applied Mechanics ISuggested Majors: Biomedical/Mechanical Engineering |
| EGR 212 | Engineering Dynamics | Transfers to UCONN CE 2120 – Applied Mechanics IISuggested Majors: Mechanical Engineering |

**Social Studies/Social Sciences/Humanities/Electives**

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| **Course** **No.** | **Course Name** | **Comments** |
| POL 111 | American Government | **Required**. Satisfies the State of CT civics requirement.Transfers to UCONN POLS 1602 – Introduction to American PoliticsSatisfies UCONN’s Content Area 2 – Social Sciences |
| **Satisfy UCONN’s Content Area 1 – Arts & Humanities** |
| HIS 101 | Western Civilization I | Transfers to UCONN HIST 1300 – Western Traditions Before 1500 |
| HIS 102 | Western Civilization II | Transfers to UCONN HIST 1400 – Modern Western Traditions |
| HIS 244 | Europe in the 20th Century | Transfers to UCONN HIST 2402 – Europe in the 20th Century |
| HIS 215 | The History of Women in the US | Transfers to UCONN HIST 1203 – Women in History**Satisfies UCONN’s Content Area 1 and 4** |
| ENG 245 | Early Western Literature | Transfers to UCONN ENGL 1101 – Classical and Medieval Western Literature |
| ART 101 | Art History I | Transfers to UCONN ARTH 1137 – Introduction to Art History: Prehistoric – 14th Century |
| ART 102 | Art History II | Transfers to UCONN ARTH 1138 – Introduction to Art History: 15th Century - Present  |
| COM 154 | Film Study & Appreciation | Transfers to UCONN DRAM 1110 – Introduction to Film |
| PHL 101 | Intro to Philosophy | Transfers to UCONN PHIL 1101 – Problems of Philosophy |
| PHL 111 | Ethics | Transfers to UCONN PHIL 1104 – Philosophy and Social Ethics |
| PHL 131 | Logic | Transfers to UCONN PHIL 1102 – Philosophy and Logic |
| PHL 112 | Medical Ethics | Transfers to UCONN PHIL 1175 – Ethical Issues in Health Care |
| **Satisfy UCONN’s Content Area 2 – Social Sciences** |
| ANT 105 | Intro to Cultural Anthro | Transfers to UCONN ANTH 1000 – Other People’s Worlds |
| ANT 101 | Introduction to Anthropology | Transfers to UCONN ANTH 1006 – Introduction to Anthropology |
| ECN 101 | Principles of Macroeconomics | Transfers to UCONN ECON 1202 – Principles of Macroeconomics |
| ECN 102 | Principles of Microeconomics | Transfers to UCONN ECON 1201 – Principles of Microeconomics |
| GEO 101 | Introduction to Geography | Transfers to UCONN GEOG 1000 – Introduction to Geography |
| COM 100 | Introduction to Communication | Transfers to UCONN COMM 1000 – The Process of Communication |
| POL 102 | Introduction to Comparative Politics | Transfers to UCONN POLS 1202 – Introduction to Comparative Politics |
| POL 103 | Introduction to International Relations | Transfers to UCONN POLS 1402 – Introduction to International Relations |
| POL 111 | American Government | Transfers to UCONN POLS 1602 – Introduction to American Politics |
| PSY 112 | General Psychology II | Transfers to UCONN PSYC 1101 – General Psychology II |
| SOC 101 | Principles of Sociology | Transfers to UCONN SOCI 1001 – Introduction to SociologySuggested Major: Pre-Pharmacy |
| SOC 201 | Contemporary Social Issues | Transfers to UCONN SOCI 1251 – Social Problems |
| SOC 220 | Racial & Ethnic Diversity | Transfers to UCONN SOCI 1501 – Race, Class and Gender**Satisfies UCONN’s Content Area 2 & 4** |
| **Satisfy UCONN’s Content Area 3 – Science & Technology** |
| BIO 111 | Introduction to Nutrition | Transfers to UCONN NUSC 1165 – Fundamentals of Nutrition |
| EVS 100 | Introduction to Environmental Science | Transfers to UCONN NRE 1000 – Environmental Science |
| GEO 203 | This Fragile Planet: Toward an environmentally Responsible World | Transfers to UCONN NRE 1000 – Environmental Science |
| OCE 101 | Introduction to Oceanography | Transfers to UCONN MARN 1002 – Introduction to Oceanography |
| PSY 111 | General Psychology I | Transfers to UCONN PSYC 1100 – General Psychology I |
| **Satisfy UCONN’s Content Area 4 – Diversity & Multiculturalism** |
| HIS 215 | The History of Women in the US | Transfers to UCONN HIST 1203 – Women in History**Satisfies UCONN’s Content Area 1 & 4** |
| SOC 220 | Racial & Ethnic Diversity | Transfers to UCONN SOCI 1501 – Race, Class and Gender**Satisfies UCONN’s Content Area 2 & 4** |

References:

* UCONN Transfer Course Equivalencies: <http://admissions.uconn.edu/content/transfer/course-equivalencies#/>
* UCONN General Education Requirements: <http://catalog.uconn.edu/academic-regulations/>
* UCONN School of Engineering: <http://catalog.uconn.edu/school-of-engineering/>
* UCONN School of Pharmacy: <http://pharmacy.uconn.edu/admissions/undergraduatepharm-d/prerequisites/>
* UCONN Pre-Med and Pre-Dental: <http://premed.uconn.edu/coursework/>