# Bachelor of Science in Construction Management (BS-CM)

The BS-CMT degree requires total 120 credit hours as listed in this table. Henry Ford College transfer students can use this table as a guideline to transfer up to 74 credits from HFC, and complete the remaining credit requirements at Wayne State to earn the BS-CMT degree.

| | WSU BS-CM Curriculum | | | Henry Ford College AAS- Programs | |
|---|---|---|---|---|---|
| | Course | | Cr | Equivalent Courses | |
| Math & Science | MAT 1800 | (QE) Elementary Functions | 4 | MATH 175 | 5 |
| | MAT 3430 | Appl Differential & Integral Calculus | 4 | MATH 180 | 5 |
| | CHM 1020 | (NSI) General Chemistry | 4 | CHEM 131 | 4 |
| | PHY 2130,1 | (NSI) General Physics with Lab | 5 | PHYS 131 | 4 |
| Business & Management | ECO 2020 | (SI) Principles of Economics | 4 | BEC 151 or BEC 152 | 3 |
| | PHI 1120 | (CI) Professional Ethics | 3 | PHIL 139 | 3 |
| | CMT 3050 | Const. Bus. Accting & Finac. Mgt. | 3 | | |
| | ET 3870 | Engineering Economic Analysis | 3 | | |
| | CMT 4030 | Facility Management Principles | 3 | | |
| | | Business Management Electives | 6 | See (1) | 6 |
| Construction Science & Construction | CMT 3000 | Construction Estimating & Bidding | 3 | | |
| | CMT 3010 | Intro. to Construction Management | 3 | | |
| | CMT 3030 | Construction Safety Management | 3 | | |
| | CMT 3070 | Intro. to Green Construction | 3 | | |
| | CMT 3020 | Res. & Com. Land Devp. and Design | 3 | | |
| | CMT 3040 | Building Codes | 3 | | |
| | CMT 3060 | Planning and Scheduling | 3 | | |
| | CMT 3080 | Advanced Computer in Construction | 3 | | |
| | CMT 4050 | Construction Methods | 3 | | |
| | CMT 4070 | Mech. & Elec. Systems in Buildings | 3 | | |
| | CMT 4200 | Senior Project | 3 | | |
| | CMT | Elective (3000 or higher level) | 3 | | |
| | CMT 4290 | Internship | 0 | | |
| Lower Div Tech Transfer | | Introduction 2D & 3D CAD | 3 | ACT 116 | 4 |
| | | Soils & Foundations | 3 | See (2) | |
| | | Applied Building Construction | 3 | ACT 124 | 4 |
| | | Lower Division Technical Electives | 18 | See (3) | 18 |
| General Education Courses | ENG 3050 | (IC) Intermediate Composition | 3 | ENG 135 | 3 |
| | | (BC) Basic Composition | 3 | Students transferring to WSU that satisfy the MTA (Michigan Transfer Agreement) will satisfy all the requirements to the left. Students must still **satisfy the above courses**, which are MTA-supported, in order to satisfy the program requirements. | 3 |
| | | (OC) Oral Communication | 3 | | 3 |
| | | (DEI) Diversity, Equity & Inclusion | 3 | | 3 |
| | | (GL) Global Learning | 3 | | 3 |
| | | (CIV) Civic Literacy | 3 | | 3 |
| | | TOTAL Degree Requirements: | 120 | | 74 |

(1) Waived when earned the AAS Construction Management Program from HFC

(2) Please consult with the Engineering Technology advisor

(3) Any other technical courses or credits under the subject of *ACT, AUTO, CIMMT, CIMTA, CIMWD, DRAF, ELEC, ENGR, ENT, MFMT, MTT, PEFT, PLMB, REEN, TADV, TAEL, TAFD, TAFP, TAGD, TAIM, TAMA, TAMJ, TAMN, TAMT, TAPI, TAPP, TAPT, TASM.* Or follow the HFC AAS CM program course work.

*For course equivalency please visit http://transfercredit.wayne.edu for more info*

# Bachelor of Science in Computer Technology (BS-CT)

The BS-CT degree requires total 124 credit hours as listed in this table. Henry Ford College transfer students can use this table as a guideline to transfer up to 83 credits from HFC, and complete the remaining credit requirements at Wayne State to earn the BS-CT degree.

| | WSU BS-CT Curriculum | | Cr | Henry Ford College AAS Programs Equivalent Course | |
|---|---|---|---|---|---|
| **Math & Science** | MAT 1800 | (QE) Elementary Functions | 4 | MATH 175 | 5 |
| | MAT 3430 | Appl Differential & Integral Calculus | 4 | MATH 180 | 5 |
| | | (NSI) Physical Science with 1-cr Lab | 7 | See (1) | 7-8 |
| **Lower Division Technical Courses** | CSC 1100.1 | Problem Solving & Programming | 4 | CIS 170 OR CIS 230 | 3 |
| | CSC 2110.1 | Intro. to Data Structure & Abstraction | 4 | | |
| | CSC 2200.1 | Data Structure & Algorithm Analysis | 4 | | |
| | EET 2100 | Principle of Digital Design | 3 | ELEC 115 | 3 |
| | EET 2720 | Microprocessor Fundamentals | 3 | ELEC 245 | 3 |
| | EET/CSC | Lower Division Technical | 25 | See (2) | 25 |
| **Upper Division Technical Courses** | E T 3850 | Reliability & Engineering Statistics | 3 | | |
| | E T 5870 | Project Management or       ET3870 | 3 | CIS 272 | 4 |
| | EET 3100 | Advanced Digital Design | 3 | | |
| | EET 3720 | Micro & Programmable Controllers | 3 | | |
| | EET 4100 | Computer Hardware Design | 3 | | |
| | EET 5720 | Computer Networking | 4 | | |
| | CSC 3750 | Introduction to Web Technology | 3 | CIS 122 | 3 |
| | CSC 4100.1 | Intro. to Software Engineering + Lab | 4 | | |
| | CSC 4220.1 | Computer Operation Systems + Lab | 4 | | |
| | CSC 4710 | Information System Design | 3 | | |
| | EET/CSC | Upper Division Tech Elective | 6 | | |
| | E T 4999 | (WI/ST) Senior Project | 3 | | |
| **General Education Courses** | ENG 3050 | (IC) Intermediate Composition | 3 | ENG 135 | 3 |
| | PHI 1120 | (CI) Cultural Inquiry | 3 | PHIL 139 | 3 |
| | | (BC) Basic Composition | 3 | Students transferring to WSU that satisfy the Michigan Transfer Agreement (MTA) will satisfy all the requirements to the left.  Students must still **satisfy the above courses**, which are MTA-supported, in order to satisfy the program requirements. | 3 |
| | | (OC) Oral Communication | 3 | | 3 |
| | | (CIV) Civic Literacy | 3 | | 3 |
| | | (SI) Social Inquiry | 3 | | 3 |
| | | (DEI) Diversity, Equity & Inclusion | 3 | | 3 |
| | | (GL) Global Learning | 3 | | 3 |
| | | **TOTAL Degree Requirements:** | 124 | | 82 - 83 |

(1) CHEM131, PHYS131, or other Natural Science courses including a lab.

(2) Most technical courses or credits under *CIS, CNT, ENGR, REEN, TAEL, ACT, AUTO, CIMMT, CIMTA, CIMWD, DRAF, ELEC, ENT, MFMT, MTT, PEFT, PLMB, TADV, TAFD, TAFP, TAGD, TAIM, TAMA, TAMJ, TAMN, TAMT, TAPI, TAPP, TAPT, TASM. See transfercredit.wayne.edu for equivalency, or consult with the ET advisor.*

# Bachelor of Science in Electrical/Electronic Engineering Technology (BS-EET)

The BS-EET degree requires total 124 credit hours as listed in this table. Henry Ford College transfer students can use this table as a guideline to transfer up to 85 credits from HFC, and complete the remaining credit requirements at Wayne State to earn the BS-EET degree.

| | WSU<br>BS-EET Curriculum | | | Henry Ford College<br>AAS Programs | |
|---|---|---|---|---|---|
| | WSU Courses | | Cr | HFC Equivalent Courses | Cr |
| Math & Science | MAT 1800 | (QE) Elementary Functions | 4 | MATH 175 | 5 |
| | MAT 3430 | Appl Differential & Integral Calculus | 4 | MATH 180 | 5 |
| | MAT 3450 | Appl Calculus & Diff Equations | 4 | MATH 288 | 5 |
| | CHM 1020 | (NSI) General Chemistry | 4 | CHEM 131 | 4 |
| | PHY 2130,1 | (NSI) General Physics and Lab | 5 | PHYS 131 | 4 |
| | PHY 2140,1 | (NSI) General Physics and Lab | 5 | PHYS 132 | 4 |
| Lower Division Technical Courses | E T 2160 | Computer Applications for ET | 2 | CIS 170 | 3 |
| | EET 2000 | Electrical Principles | 3 | ELEC103 | 4 |
| | EET 2100 | Principle of Digital Design | 3 | ELEC 115 | 3 |
| | EET 2720 | Microprocessor Fundamentals | 3 | ELEC 245 | 3 |
| | EET | Lower Division Technical | 21 | See (1) | 21 |
| Upper Division Technical Courses | E T 3850 | Reliability & Engineering Statistics | 3 | | |
| | E T 3870 | Engineering Economic Analysis | 3 | | |
| | E T 5870 | Project Management | 3 | | |
| | EET 3100 | Advanced Digital Design | 3 | | |
| | EET 3150 | Network Analysis | 4 | | |
| | EET 3180 | Analog Electronics | 4 | | |
| | EET 3500 | Electrical Machines & Power Sys | 3 | | |
| | EET 3720 | Micro & Programmable Controllers | 3 | | |
| | EET 3300 | Applied Signal Processing | 3 | | |
| | EET 4200 | Control Systems | 4 | | |
| | EET | Upper Division Tech Elective | 6 | | |
| | E T 4999 | (WI/ST) Senior Project | 3 | | |
| General Education Courses | ENG 3050 | (IC) Intermediate Composition | 3 | ENG 135 | 3 |
| | PHI1120 | (CI) Cultural Inquiry | 3 | PHIL 139 | 3 |
| | | (BC) Basic Composition | 3 | Students transferring to WSU that satisfy the Michigan Transfer Agreement (MTA) will satisfy all the requirements to the left. Students must still **satisfy the above courses**, which are MTA-supported, in order to satisfy the program requirements. | 3 |
| | | (OC) Oral Communication | 3 | | 3 |
| | | (CIV) Civic Literacy | 3 | | 3 |
| | | (SI) Social Inquiry | 3 | | 3 |
| | | (DEI) Diversity, Equity & Inclusion | 3 | | 3 |
| | | (GL) Global Learning | 3 | | 3 |
| | | TOTAL Degree Requirements: | 124 | | 85 |

(1) Most technical courses or credits under **CIMEL, CIMHP, ELEC, ENGR, REEN, TAEL,** ACT, AUTO, CIMMT, CIMTA, CIMWD, DRAF, ENT, MFMT, MTT, PEFT, PLMB, TADV, TAFD, TAFP, TAGD, TAIM, TAMA, TAMJ, TAMN, TAMT, TAPI, TAPP, TAPT, TASM. See _transfercredit.wayne.edu_ for equivalency, or consult with the ET advisor.

# Bachelor of Science in Electromechanical Engineering Technology (BS-EMT)

The BS-EMT degree requires total 124 credit hours as listed in this table. Henry Ford College transfer students can use this table as a guideline to transfer up to 90 credits from HFC, and complete the remaining credit requirements at Wayne State to earn the BS-EMT degree.

| | | WSU BS-EMT Curriculum | | | Henry Ford College AAS Programs | |
|---|---|---|---|---|---|---|
| | | Course | | Cr | | |
| Math & Science | ET 2160 | Computer Applications for ET | | 2 | CIS 170 | 3 |
| | MAT 1800 | (QE) Elementary Functions | | 4 | MATH 175 | 5 |
| | MAT 3430 | Appl Differential & Integral Calculus | | 4 | MATH 180 | 5 |
| | MAT 3450 | Appl Calculus & Diff Equations | | 4 | MATH 288 | 5 |
| | CHM 1020 | (NSI) General Chemistry | | 4 | CHEM 131 | 4 |
| | PHY 2130,1 | (NSI) General Physics and Lab | | 5 | PHYS 131 | 4 |
| | PHY 2140,1 | (NSI) General Physics and Lab | | 5 | PHYS 132 | 4 |
| Lower Division Technical Courses | E T 2140 | Computer Graphics | | 3 | See (1) | 2-4 |
| | EET 2000 | Electrical Principles | | 3 | ELEC 103 | 4 |
| | EET 2100 | Principle of Digital Design | | 3 | ELEC 115 | 3 |
| | EET 2720 | Microprocessor Fundamentals | | 3 | ELEC 245 | 3 |
| | EET or MCT | Lower Division Technical | | 18 | See (2) | 18 |
| Upper Division Technical Courses | ET 3030 | Statics | | 3 | | |
| | ET 3050 | Dynamics | | 3 | | |
| | E T 3850 | Reliability and Engineering Statistics | | 3 | | |
| | E T 5870 | Project Management | | 3 | | |
| | or E T 3870 | Engineering Economic Analysis | | | | |
| | EET 3150 | Network Analysis | | 4 | | |
| | EET 3500 | Electrical Machines & Power Sys | | 3 | | |
| | EET 3720 | Micro & Programmable Controllers | | 3 | | |
| | EET 4200 | Control Systems | | 4 | | |
| | MCT 3010 | Instrumentation | | 3 | | |
| | MIT 3500 | Manufacturing Processes Lab | | 1 | MTT 100 | 4 |
| | MCT | Upper Division Tech Elective | | 9 | | |
| | E T 4999 | (WI/ST) Senior Project | | 3 | | |
| General Education Courses | ENG 3050 | (IC) Intermediate Composition | | 3 | ENG 135 | 3 |
| | PHI 1120 | (CI) Cultural Inquiry | | 3 | PHIL 139 | 3 |
| | | (BC) Basic Composition | | 3 | Students transferring to WSU that satisfy the Michigan Transfer Agreement (MTA) will satisfy all the requirements to the left. Students must still **satisfy the above courses,** which are MTA-supported, in order to satisfy the program requirements. | 3 |
| | | (OC) Oral Communication | | 3 | | 3 |
| | | (CIV) Civic Literacy | | 3 | | 3 |
| | | (SI) Social Inquiry | | 3 | | 3 |
| | | (DEI) Diversity, Equity & Inclusion | | 3 | | 3 |
| | | (GL) Global Learning | | 3 | | 3 |
| | | TOTAL Degree Requirements: | | 124 | | 88 - 90 |

(1) Any one of: DRAF110, DRAF120, DRAF123, or DRAF260.
(2) Most technical courses or credits under *ACT, AUTO, CIMMT, CIMTA, CIMWD, DRAF, ELEC, ENGR, ENT, MFMT, MTT, PEFT, PLMB, REEN, TADV, TAEL, TAFD, TAFP, TAGD, TAIM, TAMA, TAMJ, TAMN, TAMT, TAPI, TAPP, TAPT, TASM.* See *transfercredit.wayne.edu* for equivalency, or consult with the ET advisor.

# Bachelor of Science in Mechanical Engineering Technology (BS-MCT)

The BS-MCT degree requires total 124 credit hours as listed in this table. Henry Ford College transfer students can use this table as a guideline to transfer up to 90 credits from HFC, and complete the remaining credit requirements at Wayne State to earn the BS-MCT degree.

| | | WSU BS-MCT Curriculum | | Henry Ford College AAS Programs | |
|---|---|---|---|---|---|
| | | Course | Cr | Equivalent Courses | Cr |
| Math & Science | MAT 1800 | (QE) Elementary Functions | 4 | MATH 175 | 5 |
| | MAT 3430 | Appl Differential & Integral Calculus | 4 | MATH 180 | 5 |
| | MAT 3450 | Appl Calculus & Diff Equations | 4 | MATH 288 | 5 |
| | CHM 1020 | (NSI) General Chemistry | 4 | CHEM 131 | 4 |
| | PHY 2130,1 | (NSI) General Physics and Lab | 5 | PHYS 131 | 4 |
| | PHY 2140,1 | General Physics and Lab | 5 | PHYS 132 | 4 |
| Lower Division Technical Courses | E T 2140 | Computer Graphics | 3 | See (1) | 2-4 |
| | E T 2160 | Computer Applications for ET | 2 | CIS 170 | 3 |
| | E T 2200 | Engineering Materials | 3 | ENGR 201 | 3 |
| | EET 2000 | Electrical Principles | 3 | ELEC 103 | 4 |
| | MCT/MIT | Lower Division Technical | 21 | See (2) | 21 |
| Upper Division Core Courses | E T 3030 | Statics | 3 | | |
| | E T 3050 | Dynamics | 3 | | |
| | E T 3850 | Reliability & Engineering Statistics | 3 | | |
| | E T 3870 | Engineering Economic Analysis | 3 | | |
| | E T 5870 | Project Management | 3 | | |
| | MCT 3010 | Instrumentation | 3 | | |
| | MCT 4150 | Thermodynamics | 3 | | |
| | MIT 3500 | Manufacturing Process Lab | 1 | MTT 100 | 4 |
| | E T 4999 | Senior Project | 3 | | |
| Design Track | MCT 3100 | Mechanics of Materials | 3 | | |
| | MCT 3410 | Kinematics & Dynamics of Machines | 3 | | |
| | MCT 4400 | Design of Machine Elements | 3 | | |
| | | Upper Division Tech Electives | 8 | | |
| Energy Track | MCT 4180 | Fluid Mechanics | 3 | | |
| | MCT 4210 | Heat Transfer | 3 | | |
| | MCT 5210 | Energy Source & Conversion | 3 | | |
| | | Upper Division Tech Electives | 8 | | |
| Mfg. Track | MIT 3520 | Manufacturing Process Lecture | 2 | | |
| | MIT 3600 | Process Engineering | 3 | | |
| | MIT 4700 | Computer Aided Manufacturing | 3 | | |
| | | Upper Division Tech Electives | 9 | | |
| General Education Courses | ENG 3050 | (IC) Intermediate Composition | 3 | ENG 135 | 3 |
| | PHI 1120 | (CI) Cultural Inquiry | 3 | PHIL 139 | 3 |
| | | (BC) Basic Composition | 3 | Students transferring to WSU that satisfy the Michigan Transfer Agreement (MTA) will meet all the requirements to the left. Students **must** still satisfy the above **courses**, which are MTA-supported, in order to satisfy the program requirements. | 3 |
| | | (OC) Oral Communication | 3 | | 3 |
| | | (CIV) Civic Literacy | 3 | | 3 |
| | | (SI) Social Inquiry | 3 | | 3 |
| | | (DEI) Diversity, Equity & Inclusion | 3 | | 3 |
| | | (GL) Global Learning | 3 | | 3 |
| | | **TOTAL Degree Requirements:** | 124 | | 88-90 |

(1) Any one of: *DRAF110, DRAF120, DRAF123, DRAF260.*

(2) Most technical courses or credits under *AUTO, CIMHP, CIMMT, CIMTA, CIMWD, DRAF, ELEC, ENGR, ENT, MFMT, MTT, PEFT, PLMB, REEN, TADV, TAEL, TAFD, TAFP, TAGD, TAIM, TAMA, TAMJ, TAMN, TAMT, TAPI, TAPP, TAPT, TASM.* See *transfercredit.wayne.edu* for equivalency, or consult with the ET advisor.