

Northern Michigan University

Delta College Chemistry/ACS Certified, B. S.

The bachelor's degree in Chemistry/ACS Certified is for students who plan to pursue graduate level work in chemistry or to work in the chemical industry. Students who successfully complete this program will meet at least the minimum standards of the Committee on Professional Training of the American Chemical Society. Students in this major may satisfy the minor subject requirement by completing the sequence of courses listed as an academic minor in another department or completing the group science minor.

Delta College Course #	Delta College -- Course Title	Credit Hours	NMU Equivalent	NMU Degree Requirements
	Select one course: ENG 111, ENG 111A, ENG 111B, ENG 111C, or ENG 111H	3-5	EN 111	Liberal Studies, Div. I, Communication
	Select one course: ENG 112, ENG 112A, ENG 112H, or ENG 113	3-5	EN 211 or EN 211D	Liberal Studies, Div. I, Communication
	Select two courses: (HIS 111 or HIS 111H), (HIS 112 or HIS 112H), IHU 201H, IHU 232, IHU 268, IHU 282H, LIT 201H, LIT 228, LIT 229, LIT 241, (LIT 245 or LIT 246), LIT 268, (LIT 271 or LIT 271H), (LIT 272 or LIT 272A), (LIT 274 or LIT 277 or LIT 278), PHL 203, PHL 205, PHL 207, PHL 210, (PHL 211 or PHL 211H), (PHL 213, PHL 213H, or PHL 230), PHL 214, PHL 215, (PHL 240 or PHL 240H), PHL 255, POL 215, or SSI 232	6-8		Liberal Studies, Div. II, Humanities
CHM 111	General and Inorganic Chemistry I	4	CH 111	Liberal Studies, Div. III, Natural Science/Math & Major
CHM 112	General and Inorganic Chemistry I	4	CH 112	Liberal Studies, Div. III, Natural Science/Math & Major
	Select two courses: GEO 113, (GEO 222, GEO 260, GEO 267, or GEO 268), (GEO 223, GEO 261, or GEO 262), HIS 221, HIS 222, (POL 103, POL 103C, POL 103H, POL 104, POL 104C, POL 104H, POL 111, or POL 111H), POL 222, (PSY 211, or PSY 211C, PSY 211H), (SOC 211 or SOC 211H), (SOC 212 or SOC 282H), (SOC 231 or SOC 231H) or SSI 268	6-8		Liberal Studies, Div. IV, Social Science
	Select course (s)—Minimum of 3 credits: (CST 103 or CST 106), CST 104, (CST 110 or CST 216), CST 128, CST 133, CST 134, CST 146, CST 147, (CST 151 or CST 155), CST 204, CST 214, CST 257, FR 111, FR 112, FR 211, FR 212, GE 111, GE 112, GE 211, GE 212, MTH 208, PHL 221, SOC 279, SPA 111, SPA 112, SPA 211, or SPA 212	3-4		Liberal Studies, Div. V, Formal Communication Studies
	Select one course: ARC 251, ART 151, ART 151H, ART 152, ART 251, ART 255, EMB 175, IHU 101, IHU 226, LIT 226, LIT 227, LIT 227C, MUS 111, MUS 112, MUS 118, SPH 215, or SPH 216	3		Liberal Studies, Div. VI, Visual & Performing Arts

LW 220 or LW 220H or LW 221	Lifelong Wellness or Fitness and Wellness	1-2	HP 200	Health Promotion
	Select any Physical Education activity course	1	HP Credit	Health Promotion
CHM 111	General and Inorganic Chemistry I	4	CH 111	Major
CHM 112	General and Inorganic Chemistry I	4	CH 112	Major
MTH 161	Analytic Geometry and Calculus I	4	MA 161	Other Required
MTH 162	Analytic Geometry and Calculus II	4	MA 163	Other Required
PHY 111/112 or PHY 211/212	Select one set of courses: General Physics I and II or Physics I and II	10-12 (8) (10)	PH 201/202 or PH 220/221	Other Required
	**Total Credit Hours:	60-72		
	<i>**Note: Although up to 72 semester credits are listed, do not complete all the courses in this guide. Only a maximum of 64 semester credits and an additional 4 semester credits in physical education activity courses may transfer from a two-year community or junior college.</i>			

Other Graduation Requirements:

1. Students can fulfill NMU's **world cultures** requirement by completing one of the following while at Delta College: GEO 113, GEO 222, GEO 255, GEO 260, GEO 267, GEO 268, POL 222, SOC 231, or SOC 231H;
2. At least one course in the Liberal Studies Program must be at the **300-level or above**. This requirement can be completed before attending the university if the transfer student selects a course that transfers at that level. At Delta College, the following courses meet this requirement: ART 151/152, GEO 222, GEO 223, GEO 260, GEO 261, GEO 262, GEO 267, GEO 268, LIT 245, LIT 246, LIT 268, LIT 271, LIT 271H, LIT 272, LIT 272A, LIT 274, LIT 277, LIT 278, PHL 240, PHL 240H, POL 215, POL 222, or SPH 216.

Revised 01-09 / Based on NMU's 2008-2009 University Bulletin

For further information regarding the selection and transfer of courses, contact one of NMU's Transfer Admissions Counselors, at 1-800-682-9797 or transfer@nmu.edu.