

How 2+2 Works

- The 2+2 is a four-year plan that leads to a Bachelor of Science (B.S.) degree in Mathematics - Data Science and Statistics option at WIU. Students will fill out applications for both schools, consult the advisors and catalogs from both schools for specifics. This completion guide is designed to ensure graduation in four years by taking courses at both BHC and WIU. This guide assumes students have met all course prerequisites required by BHC and admission requirements for WIU.
- Upon completion of the first two years' requirements at BHC, students will receive an Associate of Science (A.S.) degree. Students will be required to complete the major's core requirements at WIU, and upon completion of the final two years' curriculum requirements, students will receive the B.S. degree with a Major in Mathematics. In general, a minimum of 60 semester hours (s.h.) will be taken at BHC at BHC rates and 60 s.h. from WIU at WIU rates for a minimum of 120 semester hours (s.h.).
- A minimum cumulative grade point average of 2.00 should be achieved by the junior year and maintained for graduation as a Mathematics major.
- Grades of C or higher are required in the two required English Composition Courses to transfer to WIU.

Black Hawk College Course & Credit Hours

Western Illinois University Equivalents

Semester 1

MATH 124 - Calculus I	4	MATH 133 - Calculus with Analytic Geometry I
ENG 101 – Composition I	3	ENG 180 - College Writing I
IAI Physical or Life Science <i>part of a 2-course sequence</i>	4	WIU Natural Science
IAI Social & Behavioral Science – <i>ECON 221 - Principles of Macro Economics or ECON 222 - Principles of Micro Economics recommended</i>	3	ECON 231 - Principles of Macroeconomics or ECON 232 – Principles of Microeconomics
Total	14	

Semester 2

MATH 225 - Calculus II	4	MATH 134 - Calculus with Analytic Geometry II
MATH 108 – Statistics for General Education or MATH 228 – Probability and Statistics	3	STAT 171 General Elementary Statistics
ENG 102 – Composition II	3	ENG 280 College Writing I
IAI Physical or Life Science <i>part of a 2-course sequence</i>	4	WIU Natural Science
IAI Social & Behavioral Science	3	WIU Social Science
Total	17	

Semester 3

MATH 226 - Calculus III	5	MATH 231 - Calculus with Analytic Geometry III
CS 121 - Intro to Computer Science	4	CS 214 - Principles of Computer Science
IAI Physical or Life Science	3 min.	IAI Physical or Life Science elective
IAI Humanities	3	WIU Humanities
Total	15	

Semester 4

MATH 230 - Linear Algebra	3	MATH 311 - Linear Algebra
MATH 161 - Discrete Mathematics	3	MATH 255 - Discrete Mathematical Structures for Computer Science (3.s.h)
CS 225 - Advanced Programming	4	CS 250 - Data Structures I
SPEC 101 – Principles of Speech Comm.	3	COMM 241 - Intro to Public Speaking
IAI Fine Arts	3	WIU Fine Arts
Total	16	
Total Credits Semesters 1 – 4	62	

Notes:

Notes for BHC:

1. A minimum of 60 hours is required to complete the Associate of Science degree.
2. To satisfy WIU's B.S. degree general education requirements, include one science lab sequence in the Physical or Life Sciences: CHEM 101+CHEM 102 (4 credits each), CHEM 110+CEHM 111 (4 credits each), PHYS 201+PHYS 202 (5 credits each), PHYS 110+ASTR 101 or ASTR 102 (4 credits each), BIOL 190+BIOL 211 (4 credits each), or BIOL 105+BIOL 106 (5 credits each). To satisfy BHC's A.S. general education requirements, include one IAI Physical Science course and one IAI Life Science course among the three science courses in this plan. A lab is not required in the third course.
3. The Social Behavioral Science courses must be selected from at least two different prefixes.
4. BHC requires completion of a Non-Western studies course. Consult a BHC Advisor for course options that simultaneously fulfill an IAI Humanities, IAI Fine Arts, or IAI Social and Behavioral Science.
5. For questions please contact BHC Advising: email ADVQC@bhc.edu, or phone 309-796-5100.

Once you transfer to WIU, here are the remaining requirements to finish your degree:

Semester 1 (Fall)	Semester 2 (Spring)	Semester 3 (Fall)	Semester 4 (Spring)
Math 383 - Mathematical Modeling (3.s.h.)*	Math 341 - Sets and Logic (3 s.h.)*	DS 435 - Applied Data Mining for Business Decision- Making (3 s.h.)	Math 481 - Numerical Analysis I (3 s.h.)*
STAT 276 - Introduction to Probability & Statistics (3 s.h.)	CS 351 - Data Structures II (3 s.h.)	DS 480 - Predictive Analytics (3 s.h.)	STAT 478 - Analysis of Variance (3 s.h.)*
DS 303 <i>or</i> STAT 474 - Applied Business Forecasting and Regression Analysis <i>or</i> Regression & Correlation Analysis (3.s.h.)	Minor/Open elective (3 s.h.)	Minor/Open elective (3 s.h.)	CS 470 - Database Systems (3 s.h.)
Minor elective (3 s.h.)	Minor/Open elective (3 s.h.)	Social Science (3 s.h.)	Humanities/Fine Arts (3 s.h.)
Human Well Being (3 s.h. total) *2 courses from 2 different categories	Social Science (3 s.h.)	Humanities/Fine Arts (3 s.h.) MATH 391 Writing in the Mathematical Sciences <i>or</i> MATH 444 Undergraduate Research Project	Multicultural Studies (3 s.h.)

- * MATH 391 must be completed in conjunction with one of these courses to fulfill the Writing Instruction in the Discipline (WID) graduation requirement (1 s.h.).

Multicultural studies may be met at Black Hawk by selecting a BHC non-western studies course and replace it in the WIU schedule by a minor course, if necessary.

Notes:

Notes for WIU:

1. Forty-two upper-division hours are required from a 4-year institution.
2. A minimum 60 hours is required from a 4-year institution.
3. A minimum GPA of 2.0 will be required overall, in the major and in the minor(s) (if applicable).
4. Must complete an approved minor.
 - a. A minor in Algorithms and Data Management is strongly encouraged. Major courses fulfill 15 s.h. of the minor requirements. Take CS 210 - Python for Data Exploration to complete the minor.
 - b. May complete the Minor in Business Analytics. Major courses fulfill 12 s.h. of the minor requirements. Take DS 200 -Introduction to Business Analytics and DS 490 - Statistical Software for Data Management and Decision Making to complete the minor.

Get Started

You can apply at WIU in two ways:

1. Be a part of our Transfer Admission Guarantee program (TAG) by filling out our admissions application at [wiu.edu/apply](https://www.wiu.edu/apply) and selecting TAG. You can be a part of TAG at any point *prior* to earning 30 credits at your community college. Go to [wiu.edu/tag](https://www.wiu.edu/tag) to find out more about this program.
2. Fill out the admissions application at any time and select the date you would like to transfer into WIU.

The 2+2 degree map is a four year plan that leads to a Bachelor of Science degree in Mathematics at Western Illinois University and the Associate in Science at Black Hawk College. Students intending to complete the degree from WIU should follow the list of courses outlined in this brochure.

This 2+2 degree map has been reviewed and accepted by both schools as an illustration, which is subject to change.

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