

Program Handbook

MSc — Master of Science in Health Economics and Data Analytics

Degree awarded	Master of Science (MSc)
Program length	4 semesters
Credits	120 ECTS-equivalent credits
Language	English
Mode of study	Fully online, asynchronous study with scheduled tutorial consultations and analytics labs
Document	Official program handbook

WHAT THIS DOCUMENT CONTAINS

- Full program description, mode of study and admission requirements
- Learning outcomes and graduate profile
- Teaching faculty and student support units
- Tuition, instalment plan and what the fee covers
- Academic calendar, deadlines and integrity rules
- Frequently asked questions with official answers

A quantitative master's degree for professionals who must justify health care decisions with evidence, data and economic reasoning.

1. Program overview

The Master of Science is the analytical degree of Middle West University. Where the MBA trains managers and the LL.M trains lawyers, the MSc trains the people who produce the numbers both of them rely on: cost models, outcome studies, reimbursement analyses and evaluations of new interventions.

The program combines health economics with applied data analysis. Students work with anonymised claims, registry and operational datasets in every semester, and each course ends with a deliverable that could be presented to a management board or a payer.

Teaching is fully online. Analytics work is done in spreadsheet and open-source statistical environments, so no licensed commercial software is required.

2. Admission requirements

Bachelor's degree in economics, business, health sciences, law or a related field; basic numeracy is assumed

3. Mode of study

Fully online, asynchronous study with scheduled tutorial consultations and analytics labs

4. Who the program is for

- Analysts and controllers in hospitals, insurers, laboratories and pharmaceutical companies
- Clinicians and pharmacists moving into evaluation, reimbursement or HTA roles
- Public-sector staff preparing health budgets and cost-effectiveness assessments
- Consultants who advise regulated health care organisations on pricing and performance

5. Learning outcomes

On successful completion of the program, graduates are able to:

- Build and defend a cost-effectiveness model including sensitivity and uncertainty analysis
- Clean, link and analyse administrative health data while respecting data-protection constraints
- Interpret and critique published economic evaluations and health technology assessments
- Design an outcome measurement framework for a clinical or operational service line
- Communicate quantitative findings to non-technical decision makers in writing and on slides

6. Structure of the degree

Semester	Focus	Courses	Credits
Semester 1 — Economic and statistical foundations	The analytical toolkit	3	30
Semester 2 — Evaluation methods	Measuring value and outcome	3	30
Semester 3 — Applied analytics	From analysis to decision	3	30

Semester	Focus	Courses	Credits
Semester 4 — Master's dissertation	Independent quantitative research	1	30

Total: 120 credits.

7. Tuition and payment

Total tuition: USD 4,999

Total tuition for the complete Master of Science, including datasets, analytical templates, tutorial consultations, examinations and the dissertation defence.

- Deposit on enrolment: USD 999
- Four semester instalments of USD 1,000
- No separate examination, material or graduation fees

Tuition is quoted in United States dollars and is payable to Middle West University LLC. Payment schedules are agreed in writing with the Student Affairs Office before enrolment.

8. Teaching faculty and support

Unit	Role	Field
Faculty of Health Economics	Core teaching unit	Economic evaluation, outcomes research, econometrics
Faculty of Business	Supporting unit	Costing, pricing, managerial decision analysis
Faculty of Medical Law	Specialisation unit	Data protection, secondary use, research ethics

9. Assessment and academic integrity

Analytical projects — 50-70%

Models, datasets and code submitted with a written technical report.

Examinations — 20-40%

Open-book examinations testing method selection and interpretation.

Defences and simulations — 10-30%

Recorded defence of models and a live payer negotiation simulation.

Dissertation — 30 credits

Empirical study with reproducible analysis package and oral defence.

All submitted work passes an automated similarity check. Plagiarism, undisclosed collaboration and the undeclared use of generative tools are academic offences and are handled under the university's academic integrity procedure.

10. Frequently asked questions

Do I need programming experience?

No. The program starts with spreadsheet-based analysis and introduces open-source statistical tools step by step from the first semester.

Is the MSc more technical than the MBA?

Yes. The MSc is built around quantitative methods and evaluation; the MBA is built around management and strategy.

Which software do I need to buy?

None. All required tools are free or open source and installation guides are provided.

Can I use my employer's data for the dissertation?

Yes, subject to a data-access agreement and internal ethics approval, which the supervisor helps you obtain.

11. Contact

Student Affairs Office, Middle West University LLC, 2800 E. Enterprise Ave, Ste 333, Appleton, WI 54913, United States of America. Email: info@middlewestuniversity.com. Office hours Monday to Friday, 9:00 AM – 5:00 PM (CST).