Tecnológico de Monterrey

IDM/BI

B.S. in Artificial Intelligence and Data Science

Shape the future with data and algorithms

Why study this program at Tec?

You'll learn to design solutions powered by mathematics, data analysis, and artificial intelligence. From your first semester, you'll apply advanced theory to real-world problems.

- **Master machine learning, deep learning, and natural language processing.**
- **Go beyond code: think logically, create with precision, and make decisions with purpose.**

Is this your path?

If you see what everyone sees, but analyze it differently...

If you enjoy math, programming, and solving complex problems...

IDM at Tec is your platform to make it happen!

Imagine this:

Developing generative AI systems for healthcare or transforming the world by applying the most powerful mathematical models in the expanding era of Big Data.

At Tec, that future begins today.



What makes this program unique at Tec

- Strong mathematical foundations with emphasis on statistics, modeling, and optimization.
- Training in advanced AI, deep learning, and applied data science.
- Double degrees with Essex and Rennes, plus international options with ETH Zurich and Carnegie Mellon.
- Strategic partnerships with Google, IBM, Uber, FEMSA, Unilever, and more.

A world of career possibilities

- Data science
- Artificial intelligence
- Machine learning
- Data consulting
- Applied research
- Decision-making model development
- Fintech



Be part of something bigger:

#51-100 worldwide in Data Science & AI (QS 2026)

Opportunities at ETH Zurich, Berkeley, École Polytechnique, and more

Check which campuses offer this program at tec.mx



Skills you'll develop:

You'll analyze large volumes of structured and unstructured data, build AI and machine learning models, program specialized solutions, make ethical decisions based on rigorous analysis, and create projects with economic, social, and environmental impact.

The voices of those already making an impact

Outstanding participation in Data Day, international hackathons, and collaborative projects with global universities.

A glimpse of how our community creates impact with its talent.

You already think like a data scientist. Here, you take that talent to the next level.

Take your first step toward intelligence that transforms.

Tecnológico de Monterrey

Curriculum
B.S. in Artificial Intelligence and Data Science

1ST SEMESTER
- Elective Course Mathematics and Science
- Differential and Integral Calculus
- Programming Fundamentals
- Innovative Perspectives in Engineering
- The Laws of Motion and Conservation
- Tec Week: Induction to the Social Service
- Tec Week Elective I

2ND SEMESTER
- Elective Course Humanities and Fine Arts
- Multivariable Calculus
- Discrete Mathematics
- Object Oriented Programming
- Exploration Topic
- Statistics and Data Handling
- Matrix Algebra and Numerical Methods
- Foreign Language
- Tec Week Elective II
- Tec Week Elective III

3RD SEMESTER
- Elective Course Social and Behavioral Sciences
- Advance Linear Algebra
- Data Structures
- Introduction to Artificial Intelligence
- Multivariable Integration and Dynamical Systems
- Probability and Statistics
- Tec Week Elective IV
- Tec Week Elective V

4TH SEMESTER
- Elective Course Leadership, Entrepreneurship and Innovation
- Data Analysis and Machine Learning
- Optimization
- Databases
- Advanced Algorithm Analysis and Design
- Disciplinary Tec week
- Tec Week Elective VI

5TH SEMESTER
- Elective Course Ethics and Citizenship
- Integer Programming and Metaheuristic Algorithms
- Stothastic Processes
- Multivariate Methods in Data Science
- Deep Learning
- Tec Week: Professional Life Planning
- Tec Week Elective VII

6TH SEMESTER
- Numerical Analysis
- Topological Data Analysis
- Reinforcement Learning
- Transfer Learning
- Cloud Computing for Artificial intelligence
- Natural Language Processing
- Tec Week Elective VIII
- Tec Week Elective IX

7TH SEMESTER
TEC SEMESTER

You'll be able to customize your career through:
- Concentrations
- Internships
- International experience
- Elective training units

- Tec Week Elective X
- Tec Week Elective XI

8TH SEMESTER
- Elective Multidisciplinary Professional
- Projects with Machine Learning
- Tec Week: Strategies and Guides for the Final Degree Exam
- Tec Week Elective XII

● You'll be able to customize your learning experience by choosing from the different available options.

*The curriculum may vary. Contact an admissions advisor or visit **tec.mx** for more information.

BACHELOR

This program is also offered in English as:
B.S. in Artificial Intelligence and Data Science

Your future in ARTIFICIAL INTELLIGENCE AND DATA SCIENCE starts here.

Want more info?

Scan this QR to know more about this program.
tec.mx/idm

WHY NOT?

RVOE: DEC-520912