



**TECANA AMERICAN
UNIVERSITY**

Website: <https://tauniversity.org/>

Master of Science in Systems Engineering with specialization in Information Technology

This Master's degree is managed remotely by Internet, in Spanish and can be done from your country of residence. Really study at TAU, finish your studies and obtain a valuable international degree authenticated by the respective US authorities. Professionals with a bachelor's degree from a recognized university, in systems engineering, telecommunications or related areas, preferably with work experience in the discipline under study, are invited to study this master's degree.

GENERAL COMPOSITION OF THE MASTER

STUDY PLAN:

It consists of the following 5 advanced courses of independent research and the thesis, for a total of 45 credits. The five (5) courses listed below are special courses since they cover two or more subjects. Once approved, they amount to eleven subjects of 3 credits each; plus twelve (12) credits: Research Methodology, Project and Thesis, which must be completed in the thesis phase.

Program Coursework with specialization in Information Technology:

IT511 Introduction to Systems Engineering (and Formulation of Systems Models, Fundamentals Theorists of Systems); Technologies and Multimedia Devices

IT512 Relational Architecture, Data Engineering and Information Protection

IT513 Distributed Databases, Cryptography: Systems, Protocols and Geographic Information Systems

IT514 Design, Planning and Management of Data Communication Systems

IT515 Estimation of Software Projects and Project Management

M599 Master's Thesis (Proposal. Project and Thesis)

The postgraduate academic work consists of developing each Independent Advanced Research Course, based on bibliographical research, online resources, methodological guidelines of the program and other resources available for research. The final exam of each course consists of writing and approving the Final Research Report of 35 pages without counting preliminary or annexed pages, original and authentic. The Research Report represents the final result of the serious and interesting research process of each course and must be structured and composed in accordance with the format required by the University. During the development of each course, the student will do various bibliographical research, analysis and extraclass practices to complement the learning of the subject.

The master's thesis is individual and will be undertaken prior approval of the proposal by the Academic Staff of the University, preferably no more than 100 pages without counting preliminary pages or annexes, or less than 70 pages, original and authentic.

One of the approved research papers, must be published as a scientific paper or Research Paper in scientific journals of global coverage accepted by TAU. The University can manage grants for these publications through existing agreements.

All presentations will be made via the Internet.

DURATION: two months for each research course and six months minimum for thesis work. It can be before depending on the dedication to the study.

ADMISSION REQUIREMENTS: Professionals with a bachelor's degree from a recognized university, in systems engineering, telecommunications or related areas, preferably with work experience in the discipline under study, are invited to study this master's degree.

DURATION: two months for each research course and six months minimum for thesis work. It can be before depending on the dedication to the study.

REGISTRATION FEES AND COLLEGIATURE FEES: US \$ 5,999 with payment plans of 24 monthly installments of US \$ 250 each; or 32 monthly payments of US \$ 188; and at 48 months with a monthly fee of US \$ 125; no financing interest if the tuition is paid monthly before the due date, inclusive. The Program includes registration and registration. Academic program, didactic material for virtual environments, academic guidelines and bibliographical indications and references for each course; virtual accompaniment, academic advice, methodology, evaluations and monitoring.

Tutoring in English Language: US \$ 500, this amount may vary depending on the Academic Program, more information admissions@tauniversity.org

The graduation fee (US \$ 650) includes thesis or degree projects + diploma and transcript in English + authentication degree or Apostille. It can be canceled in two or more installments, before the degree date.

Form of payment: Debit and Credit Card - Visa, Master Card, American Express, Diners Club, Discover BY SECURE SERVER -. | bank transfer | Deposit by Bco ticket office | PayPal | Email (USA Only) | Bank account (USA only) |

Admission requirements

Send by email to admissions@tauniversity.org

- 1- Copy (in PDF) Diploma and Bachelor's Notes in Engineering, from which he graduated.
- 2.-Copy of the Identity Document with photo, address and telephone
- 3.-Current work certificate (or last job)
- 4.- Curriculum Vitae (Detailed Summary)
- 5.-Proposal payment of the Tuition



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Master of Science in Systems Engineering with specialization in

Program Coursework with specialization in General Information Systems and Management:

Analysis and Synthesis of Information Systems, Methodology of Systems, Systems of Databases
Organizational, Software Engineering, Systems
Public, Information Management for Managers in
Line, Theory of individual and collective decisions,
Decision Support System, E-Business:
Management in the New Economy, Development
Organizational, Consulting Processes, Management
Strategic

Program Coursework with specialization in Control and Automation Systems:

State space in control engineering, modeling and simulation of
Systems, Digital Control Systems, System
Multivariable Control, Predictive Control based on
Models, Fuzzy Systems, Fuzzy Control,
Application of Neural Networks in Control, Control
Robust, Non-Linear Control, Optimal Control,
Industrial Automation, Event Systems
Discreet, Identification of Systems.

Program Coursework with specialization in Operations Research:

Analysis of Linear Systems, Methods
Quantitative in Production and Operations,
Dynamic Programming, Statistical Inference,
Reliability Engineering, Graph Models,
Analysis of Temporary Series, Statistical Control of
Processes, Systems Simulation, Discrete Models
of Linear Optimization, Non-Linear Programming.



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