

UNIVERSIDAD TECNOLÓGICA DEL NORTE DE AGUASCALIENTES, MEXICO.  
**Associate Degree in: Mechatronics, Flexible Manufacturing Area**

Our careers are intended to Professionals Competences therefore the first 6 quartermesters of your career curriculum is called: Mechatronics, Flexible Manufacturing Area.

In the second stage (the next 5 quartermesters) you'll finish your studies as: Bachelor degree in Science: Mechatronics

**JOB OPPORTUNITIES**

Providing technical support to small, medium and large businesses or even creating your own company.

In the manufacturing sector developing high technology, designing and creating systems of production and automation in technology labs.

**JOB POSITIONS**

As a Mechatronics Engineer you could perform different positions such as: Engineer, Supervisor, Manager, Director of Manufacturing, Technology, etc.

<p><b>Scholarships</b> The UTNA has a scholarship scheme that offers great opportunities for you to study your career at the university.</p> <ul style="list-style-type: none"> <li>- Scholarship "Manutención"</li> <li>- Scholarship "Bécalos"</li> <li>- Internal Scholarship</li> <li>- Scholarship Food, Transport and Sport</li> </ul>	<p>We have 25 transportation routes for your comfort. For more distant locations.</p>
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**Business Incubator**

The UTNA offers students and general entrepreneurial community, a platform to boost business creation through its Business Incubator providing counseling, guidance to financial programs and diffusion in different photos.

## Mechatronics in Flexible Manufacturing Area

<p>1<sup>st</sup> Quarter</p> <ul style="list-style-type: none"> <li>• Sociocultural Studies 1</li> <li>• ESL 1</li> <li>• Electric Circuits</li> <li>• Oral &amp; Written expression 1</li> <li>• Statistics and Dynamics Fundamentals</li> <li>• Information Technology</li> <li>• Mathematics</li> <li>• Production Processes</li> </ul>	<p>3<sup>rd</sup> Quarter</p> <ul style="list-style-type: none"> <li>• Sociocultural Studies 3</li> <li>• ESL 3</li> <li>• Logical Programmable drivers</li> <li>• Automation Projects Planning</li> <li>• Multidiscipline 1 (integradora)</li> <li>• Automatic control systems</li> <li>• Digital Systems</li> <li>• Mechanical systems</li> </ul>	<p>5<sup>th</sup> Quarter</p> <ul style="list-style-type: none"> <li>• ESL 5</li> <li>• Oral &amp; Written expression 2</li> <li>• Multidiscipline 2 (integradora)</li> <li>• Computer Assisted Manufacturing</li> <li>• Manufacturing process 2</li> <li>• Flexible Manufacturing Systems</li> </ul>
<p>2<sup>nd</sup> Quarter</p> <ul style="list-style-type: none"> <li>• Sociocultural Studies 2</li> <li>• ESL 2</li> <li>• Electrical Engine control</li> <li>• Analogical Electronics</li> <li>• Dimensional Elements</li> <li>• Sensorial Programming Logics</li> <li>• Hydraulic and Pneumatic Systems</li> </ul>	<p>4<sup>th</sup> Quarter</p> <ul style="list-style-type: none"> <li>• Sociocultural Studies 4</li> <li>• ESL 4</li> <li>• Manufacturing Process control</li> <li>• Mechanical Drawing</li> <li>• Manufacturing Process 1</li> <li>• Robotics</li> </ul>	<p>6<sup>th</sup> Quarter Internship</p>

## CURRICULUM

### Bachelor Degree in Science: Mechatronics Engineering

<p>7<sup>th</sup> Quarter</p> <ul style="list-style-type: none"> <li>• Applied Calculus</li> <li>• Industrial Electricity</li> <li>• ESL 6</li> <li>• Computer assisted design</li> <li>• Time Management</li> </ul>	<p>8<sup>th</sup> Quarter</p> <ul style="list-style-type: none"> <li>• Applied Differential equations</li> <li>• Engines Control</li> <li>• Mechanics for Automation</li> <li>• Microdevices</li> <li>• ESL 7</li> <li>• Work Planning</li> </ul>	<p>9<sup>th</sup> Quarter</p> <ul style="list-style-type: none"> <li>• Processes Statistic Control</li> <li>• Automatic Control</li> <li>• Project Management</li> <li>• Mechanical Systems</li> <li>• Cinematic and robot control</li> <li>• ESL 8</li> </ul>
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<p>10<sup>th</sup> Quarter</p> <ul style="list-style-type: none"> <li>• Advanced Logic Control</li> <li>• Flexible Manufacturing Systems</li> <li>• Digital Programmable devices</li> <li>• Multidiscipline (integradora)</li> <li>• ESL 9</li> <li>• Business Negotiation</li> </ul>	<p>11<sup>th</sup> Quarter</p> <ul style="list-style-type: none"> <li>• Internship</li> </ul>	

Eleventh Semester  
Professional Practices

