



THE UNIVERSITY OF  
**WESTERN  
AUSTRALIA**



**South  
Metropolitan**



**FUTURE  
ENERGY  
EXPORTS**  
Cooperative Research Centre



# Associate Degree in Applied Technologies

## Gain the skills to deploy Industry 4.0 technologies across manufacturing and extractive industries

Industry 4.0 represents the world's fourth industrial revolution and is changing the way companies manufacture and deliver services by integrating sensors, data analytics, and intelligent control systems. This course is designed for professionals with industry experience, who want to participate in the development and deployment of these technologies to enhance the competitiveness of sovereign manufacturing, extraction, defence and export industries.

### Apply today

To learn more about, or apply for, this course, please visit:

**[uwa.edu.au/study/courses/associate-degree-in-applied-technologies](https://uwa.edu.au/study/courses/associate-degree-in-applied-technologies)**

Developed alongside industry partners and co-delivered between UWA and South Metropolitan TAFE, you will develop or refine the foundational mathematics and programming skills required to implement Industry 4.0 technologies, alongside hands-on practice in deploying these technologies toward industry projects.

In your final semester, you will apply the foundational and practical knowledge on an industry-facing project of your choosing, using UWA's ERDi Industry 4.0 Testlab, guided and evaluated by academic and industry experts. You will have the opportunity to propose your own capstone project, if you are working part time in a relevant industry, or choose from established industry projects requiring the deployment of Industry 4.0 technologies.

The course is designed to provide early- or mid-career professionals with an opportunity to explore the university environment: the flexibility of the course gives you the option to explore foundational physics, chemistry, or engineering units, enabling opportunities for further study in these disciplines.

### Course attributes

- Complete in 3 semesters of full-time study
- With a relevant Diploma from SM TAFE, complete in 2 semesters of full-time study
- Co-delivery with SM TAFE, with hands-on practical learning
- Admission requires completion of a relevant TAFE Diploma or 5 yrs work experience: ATAR is not required
- Complete tuition assistance is available for limited number of students in 2022 and 2023

## Accelerated pathway

### Diploma of Applied Technologies Graduates

If you who have completed this Diploma at SM TAFE, you are eligible to apply for a one-semester Recognition of Prior Learning (RPL) at UWA:

- Recognition is granted for completion of UEENEEE101A, UEENEEI150A, and UEENEEI151A at SM TAFE, as well as equivalency to MATH1720 at UWA;
- Students are only required to pass 8 units (one year, full time) for their Associates Degree in Applied Technologies.

### Diploma of Engineering Technical Graduates

If you who have completed this Diploma at SM TAFE, you are eligible to apply for a one-semester Recognition of Prior Learning (RPL) at UWA:

- Recognition is granted for completion of MEM23109A and MEM22013A, as well as equivalency to MATH1720 at UWA;
- Students are only required to pass 8 units (one year, full time) for their Associates Degree in Applied Technologies.

## Graduate outcomes

### You will learn to...

- Understand the “Industry 4.0” paradigm, and how it applies to energy, extractive, and manufacturing industries;
- Design and integrate sensors required for Industry 4.0 through practical, hands-on skills development;
- Deploy digital interoperability standards, and learn how to efficiently collect and manage data across an Industry 4.0 deployment; and
- Apply mathematical and programming frameworks that inform practical engineering tools within the Industry 4.0 paradigm.

### Co-delivery by UWA and South Metropolitan TAFE

- You will gain hands-on skills development at SM TAFE, and will deploy these on industry-facing projects at UWA’s ERDi Industry 4.0 Testlab in your final semester.
- SM TAFE classes are offered at night, while most UWA classes are offered online.
- The course outcomes are guided by industry expectations and deploy industry-standard tools, ensuring graduates can immediately apply outcomes in current and future roles.



### Tuition waivers available

For more information visit:

[uwa.edu.au/study/courses/associate-degree-in-applied-technologies](https://uwa.edu.au/study/courses/associate-degree-in-applied-technologies)

Limited partial or full tuition waivers are available for this course in 2022 and 2023.

For prospective students or employers seeking additional information about the course, please contact Prof. Zach Aman ([zachary.aman@uwa.edu.au](mailto:zachary.aman@uwa.edu.au)).

#### PROF. ZACH AMAN

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