



WESTERN AUSTRALIAN
COLLEGE of AGRICULTURE
Denmark



2024
**YEAR 11
SUBJECT OFFERINGS
HANDBOOK**

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Introduction

Making the transition to Senior School is an exciting opportunity for our Year 10 students to shape their own future in an increasingly connected world. The Western Australian College of Agriculture - Denmark has a strong tradition of excellence and the pursuit of high levels of achievement.

We are committed to having all our students achieve WACE Secondary Graduation through successful completion of their studies in Years 11 and 12. Overwhelming evidence demonstrates that young people who achieve Secondary Graduation create many opportunities for further education and training (University and TAFE), improve their longer term employment prospects and earning capacity, and strengthen career development.

As a parent, you play an important role in helping your child to make educational choices and career decisions.

We offer an extensive counselling program for all Year 10 students as they consider their Year 11 and 12 course selections. This counselling is based on selection for success in desired career pathways. All parents are encouraged to engage in this process and to consider the recommendations on course selections as suggested by the classroom teachers.

How to use this booklet

This booklet presents a summary of the courses available and other vital information necessary to make good choices. It does not stand alone. It should be used in conjunction with information on various websites, Getting Ready For My Future Booklet, Pathway Plans and Recommendation Sheet.

Advice and information is available from teachers or the Deputy Principal.

The Course Counsellors in 2023 are:

- Rebecca Kirkwood – Principal
- Alf Mungioli – Deputy Principal
- Mark Boynton – Program Coordinator Trades
- * Kate Fleay – Acting Program Coordinator Teaching and learning

Course Selection Advice

Making choices for study in Year 11 should be based on the following considerations:

- Realistic assessment of ability, application and commitment: It is essential for students to make choices which are realistic and that are suitable for their academic ability and commitment to school.
- Interests and possible future careers: Selecting courses that are of interest to students is more likely to lead to success and enjoyment in their studies. If future goals are uncertain, it is best to maintain a broad course that would enable entry to a variety of post-school destinations.
- Passion for a type of learning and context of learning: The two available pathways cater to different types of learning, with the ATAR Pathway being more content and examination focused, while the VET/General Pathway is a more practical, skills-based option.

Careful selection of courses is essential to avoid the challenges associated with making course changes in Year 11. Changes after commencement of Year 11 are not only disruptive to students' progress but also necessitate considerable catch-up work on the part of students. After commencement of Year 11, students will only be permitted to make course changes with the agreement of the specific course teachers, Deputy Principals and parent/guardians.

We strongly urge students and parents to read and discuss the information provided in this handbook. In particular, it is essential that students take note of the minimum Year 10 prerequisites for Year 11 courses. These prerequisites have been set to reflect the level of difficulty and rigour of Year 11 courses and to guide students to select courses in which they are more likely to experience success.

Some of the things students should consider when selecting courses for Year 11 and 12 are listed below.

1. Are you going to study an Australian Tertiary Admission Rank (ATAR), General or VET course?
2. What are the courses necessary for the University, TAFE course or job that you are aiming for?
3. What are your chances of being successful in those courses?
4. What subjects am I good at and what do I enjoy doing? Avoid choosing courses that you know you may struggle with.

Ask your teachers for recommendations in each Learning Area, and you should carefully consider their advice.

5. All students must study a List A and a List B course in both Year 11 and 12. This is why English and Mathematics are compulsory courses for students at WACOA - Denmark. The College recommends you study 5 ATAR courses if you are looking at the ATAR pathway, and at least one Certificate course if you are looking at the VET/General pathway.

WESTERN AUSTRALIAN CERTIFICATE OF EDUCATION (WACE)

The WACE Requirements

This section is relevant to all students seeking to achieve the WACE in 2024. The WACE is a certificate that demonstrates significant achievement over Years 11 and 12.

Achievement of your WACE acknowledges that at the end of your compulsory schooling you have achieved or exceeded the required minimum standards in an educational program that has suitable breadth and depth.

General Requirements

In order to achieve their WACE, students must:

- demonstrate a minimum standard of Literacy (Reading and Writing) and a minimum standard of Numeracy based on the skills regarded as essential for individuals to meet the demands of everyday life and work in a knowledge- based economy (i.e. pass the OLN or achieve Band 8 or above in Year 9 NAPLAN)
- complete a minimum of 20 units or equivalents as described below:
 - complete at least four Year 12 ATAR courses, or
 - complete at least five Year 12 General courses and/or ATAR courses, or
 - complete a Certificate II (or higher) VET qualification in combination with ATAR, General courses.

Breadth and Depth

Students will complete a minimum of 20 course units or the equivalent. This requirement must include at least:

- a minimum of ten Year 12 units or the equivalent,
- two completed Year 11 English units and one pair of completed Year 12 English units, and
- one pair of Year 12 course units from each of List A (Arts/Languages/Social Sciences) and List B (Mathematics/Science/Technology) subjects.

Achievement Standard

Students will be required to achieve fourteen C grades (or equivalents, see below) in Year 11 and Year 12 units, including at least six C grades in Year 12 units (or equivalents).

Unit equivalence can be obtained through Vocational Education and Training (VET) programs and/or endorsed programs. The maximum unit equivalence available through these programs

is eight units – four Year 11 units and four Year 12 units. Students may obtain unit equivalence as follows:

- up to eight unit equivalents through completion of VET programs, or
- up to four unit equivalents through completion of endorsed programs, or
- up to eight unit equivalents through a combination of VET and endorsed programs, but with endorsed programs contributing no more than four unit equivalents.

The Western Australian Statement of Student Achievement (WASSA)

A WASSA is issued to all Year 12 students who complete any study that contributes towards a WACE.

The record of achievement will record:

- Completion of requirements for secondary graduation for the awarding of the WACE
- Achievement of Literacy and Numeracy Standards
- Other qualifications achieved, such as VET certificates
- Levels of achievement for courses in the school and examination assessments, including grades and final school marks
- Course units completed
- Achievement of Authority-endorsed programs
- Achievement of the English language competence standard
- Achievement of awards

Literacy and Numeracy

There are two parts to demonstrating competence in Literacy and Numeracy. Firstly, you are required to complete two Year 11 English units and a pair of Year 12 English units. Secondly, you must demonstrate that you have met the minimum standard for Literacy and Numeracy, which is based on skills regarded as essential for individuals to meet the demands of everyday life and work. You can demonstrate the minimum standard:

- through the Authority's Online Literacy Numeracy Assessment (OLNA), or
- if you demonstrate Band 8 or higher in your Year 9 NAPLAN, Reading, Writing and Numeracy tests.

The OLNA is compulsory for those students who have not prequalified in one or more of the components through Year 9 NAPLAN and want to achieve the WACE. Students will have up to six opportunities (two per year) between Year 10 and Year 12 to demonstrate the Literacy and Numeracy minimum standard.

There are three assessment components:

- one 50-minute, 45-item multiple-choice of Reading
- one 50-minute, 45-item multiple-choice of Numeracy, and
- one 60-minute, extended response in Writing of between 300 and 600 words.

Endorsed Programs

Endorsed programs address areas of learning not covered by WACE courses. Examples at WACOA Denmark include workplace learning.

Endorsed programs may replace up to two Year 11 course units and two Year 12 course units you need to achieve your WACE.

Externally Set Tasks (ESTs)

There are no exams for General units. However, students will complete an externally set task (EST), which is a common task that all students enrolled in a General or Foundation course will sit in Semester 1 of Year 12. The task is set by the Authority, completed by students under test conditions, and is worth 15 per cent of the final mark for that pair of units.

ATAR Examinations

The Authority sets, administers and marks ATAR examinations for ATAR Units 3 and 4 in all courses. All ATAR examinations have written papers and some also include practical, oral, performance or portfolio examinations.

Enrolling in Examinations - When students enrol in a Year 12 ATAR course, they will be automatically enrolled to sit the ATAR examination in that course.

Examinations Compulsory for Graduation at ATAR - Separate examinations for ATAR Units 1 & 2 and ATAR Units 3 & 4 will be held in all courses. Students will be required to sit the examinations to achieve the WACE.

Students who are in their final year of secondary schooling and are enrolled in at least one ATAR pair of units in a course are required to sit for and make a genuine attempt at the WACE examination in that course.

In the context of ATAR courses in the WACE, the term 'complete' requires a student to sit the ATAR course examination or have an approved sickness/misadventure application for not sitting the examination in that course.

Students who do not sit the ATAR course examination will not have a course mark or grade recorded on their WASSA, nor will they achieve an ATAR course report. This may also impact on students' WACE attainment.

If students are applying for university admission, they should check that their course selections meet the entry requirements. University admission information is available on the TISC website <http://tisc.edu.au/static/home.tisc>.

Course Changes

Students are able to change courses after the school's timetable has been constructed. However, it is important to remember that classes do reach capacity and the sooner a change is made the better chance of gaining a place in a desired course.

For a student to achieve course unit credits, a change can only be made early in Year 12, before the cut-off date set by the Authority; or in Year 11 after the completion of Unit 1, or at the end of Year 11 after completion of Unit 2. For a student to change a course they will need to see the Deputy Principal.

No changes will be made to student's course selection without a parent and teacher signature endorsing a change. Under normal circumstances, students will only be able to transfer to a new course up to the end of Week 6, Term 1.

If at any time parents or students have questions about Senior School courses, they are requested to contact the Head Of Learning Coordinator.

Course Availability

The school reserves the right to withdraw any course. Available resources limit the number of classes which can be timetabled. Places in courses will be allocated on the basis of students who have met the prerequisites. If a student submits a course selection form after the due date for submission, they risk the possibility of not being allocated to all of their chosen selections.

LIST A and LIST B COURSES OFFERED YEAR 11, 2024

Students must choose at least one course from each of the lists below. It is very important when selecting a course that attention is paid to **minimum entry requirements and the teachers' recommendations**. It may not be possible to timetable courses if they are chosen by a very small number of students.

List A		
Code	Course Name	Year 10 Recommended
AEENG	English ATAR	Minimum B grade in Year 10 English.
GEENG	English General	None

List B		
Code	Course Name	Year 10 Recommended
AEMAA	Mathematics Applications ATAR	Minimum B Grade in Year 10 Mathematics
AEAGB	Agribusiness ATAR	Minimum B grade in Year 10 HASS
AEAST	Agricultural Science and Tech	Minimum B Grade in Year 10 Science
AEBLY	Biology ATAR	Minimum B grade in Year 10 Science
GEMDTM	Materials Design Technology: Metals General	None
GEMAE	Mathematics Essential General	Category 2 or higher in OLNA Numeracy
GEPPS	Plant Production Systems General	None
GEAPS	Animal Production Systems General	None
GEPES	Phys Ed Studies	None
AHC20122	Certificate II in Agriculture	None
AUR20720	Certificate II in Automotive Vocational Preparation	Minimum C grade in Year 10 Design & Technology & Maths
MEM20422	Certificate II in Engineering Pathways	Minimum C grade in Year 10 Design & Technology & Maths
AHCSS00075	Basic Beekeeping Skill Set	

ACM20221	Certificate II in Horse Care	None
FWP20122	Certificate II Forest Operations	None

List of Certificates and Endorsed Programs

The following courses are offered through our Registered Training Organisation (Provider Number 50502):

- AHC20122 Certificate II in Agriculture
- AHC30122 Certificate III in Agriculture (offered in Year 12)
- MEM20422 Certificate II in Engineering Pathways
- AUR20720 Certificate II in Automotive Vocational Preparation
- ACM20221 Certificate II in Horse Care
- FWP20122 Certificate II Forest Operations
- AHCSS00117 Introduction to Conservation and Ecosystem Management skill set (may be offered in Year 12)
- AHC21020 Certificate II in Conservation & Ecosystem Management (may be offered in Year 11 or 12)
- AHCSS00075 Basic Beekeeping Skill Set
- AHC21416 Certificate II in Wool Handling

Year 11 Course Descriptions – 2024

English ATAR

The English ATAR course focuses on developing students' analytical, creative, and critical thinking and communication skills in all language modes, encouraging students to critically engage with texts from their contemporary world, the past, and from Australian and other cultures.

Mathematics Applications ATAR

This course focuses on the use of mathematics to solve problems in contexts that involve financial modelling, geometric and trigonometric analysis, graphical and network analysis, and growth and decay in sequences. It also provides opportunities for students to develop systematic strategies based on the statistical investigation process for answering statistical questions that involve analysing univariate and bivariate data, including time series data.

Agribusiness ATAR

The Agribusiness ATAR course enables students to develop knowledge and skills related to the business decisions needed to run enterprises from production to marketing, adding value at all stages of the production process.

Students learn about the structure of management in an agribusiness, manager functions and analysis of external factors influencing an agribusiness. Students will also learn about planning for sustainability to maintain the productivity of an agribusiness, including economic, environmental and social aspects.

Agricultural Science and Technology ATAR

The Agricultural Science and Technology ATAR course enables students to develop knowledge and skills related to the sustainable use of resources for a wide variety of agricultural production systems. Students explore, analyse and understand the ways that people manage natural resources, such as plants, animals, soil and water, to meet global societal needs. Students will also explore how new developments in science and technology can increase productivity, efficiency and sustainability whilst responding to evolving domestic and global demands.

Biology ATAR

A unique appreciation of life and a better understanding of the living world are gained through studying the Biology ATAR course. Students develop a range of practical skills and techniques through investigations and fieldwork in authentic contexts, such as marine reefs, endangered species, urban ecology, or biotechnology. Scientific evidence is used to make informed decisions about controversial issues.

English General

The English General course focuses on consolidating and refining the skills and knowledge needed by students to become competent, confident and engaged users of English in everyday, community, social, further education, training and workplace contexts.

Mathematics Essential General

The Mathematics Essential General course focuses on using mathematics effectively, efficiently and critically to make informed decisions. It provides students with the mathematical knowledge, skills and understanding to solve problems in real contexts for a range of workplace, personal, further learning and community settings. This course provides the opportunity for students to prepare for post-school options of employment and further training.

Animal Production Systems General

In the Animal Production Systems General course students learn about and apply operational practices to selected animal enterprises. Students apply natural resources, such as plants, animals, soil and water to the objective of meeting personal and community needs. They work with food and fibre production systems, applying sustainable farming practices and using appropriate agricultural technologies.

Plant Production Systems General

In the Plant Production Systems General course students learn about and apply operational practices to selected plant enterprises. Students apply natural resources, such as plant

varieties, climate, soil and water, to the objective of meeting personal and community needs. They work with food and fibre production systems, applying sustainable farming practices, and using appropriate agricultural technologies.

Materials Design and Technology Metals General

The Materials Design and Technology Metals course provides students with the opportunity to develop practical and design skills in the metal trades area. Students will learn fabrication, welding, machining skills including 3D modelling CAD. They are able to put this knowledge to use in designing projects of their own. Practical and design skills learned in this course will assist with seeking employment in a variety of metal working vocations.

Students will gain practical and design skills including:

- Welding and fabrication skills – arc and mig welding
- Design principles and processes including 3D Printing
- Fitting and machining techniques
- Opportunities to design and develop personal projects

Phys Ed Studies General

Physical Education contributes to the development of your physical, social and emotional growth. Students will spend time learning about some sports while also completing a range of theory activities and tasks. Students will learn how the body responds to physical activity including:

- Anatomical, physiological and practical factors associated with performance
- Impact of physical activity on the body's anatomical and physiological systems
- Improving team performance

Qualifications and Other Courses

Automotive (Certificate II in Automotive Vocational Preparation AUR20720)

This qualification trains and prepares individuals to perform a range of tasks related to identifying, inspecting, repairing and servicing components and systems predominately in light vehicles. The Certificate II in Automotive Vocational Preparation is a two year course, it cannot be completed in one year. Employment opportunities targeted by this qualification are the mechanical and low voltage electrical trade sectors.

Metals and Engineering (Certificate II in Engineering Pathways MEM20422)

The Certificate II in Engineering Pathways is typically a 2 year course running over Years 11 and 12. It comprises of twelve Units of Competency.

This qualification is suited to students looking to gain entry level employment in the Metals & Engineering Industry. Students will gain the practical skills and knowledge required to complete basic welding and fabrication tasks. Students will also learn how to use workshop tools and machinery safely in the workplace. Topic covered include:

- Work health and safety in the work place

- Undertake basic engineering projects
- Workshop machines and hand and power tools
- CAD Design and CNC Cutting
- Welding and fabrication equipment

Equine (Certificate II in Horse Care ACM20221)

This is intended as a 2 year course. In this course students learn how to care for horses, developing their knowledge of feeding and caring for horses in stable and paddock environments, nutritional requirements, injuries, ailments and basic riding skills. It is an “all-round” introductory qualification designed to provide access to direct employment opportunities in the equine or equine related industries, principally as stable or stud hand or as an assistant.

Forestry (Certificate II in Forest Operations FWP20122) or Conservation (AHC21020 Certificate II Conservation and Ecosystem Management)

Participation in either/both courses will give students the opportunity to experience and develop skills related to Forestry and Conservation. A range of activities are covered which include recognising native flora and fauna, ecosystem/natural area restoration, attaining chainsaw operator’s certification, plantation establishment and management for high value sawlog plantations (including tree selection pruning and thinning plus a competency in tree falling).

The Cert II in Forest Operations qualification has several employment pathways in typical forest growing and management operational environments. These include Arboriculture, Farm Forestry, Plantation Forestry Management (including establishment and harvesting), Silviculture, Tree/Plant Nursery Management, Forest Technician/Data Management and Nature Conservation.

Beekeeping (AHCSS00075 Basic Beekeeping Skill Set)

Our beekeeping students learn how to carry out basic beekeeping tasks such as light and operate a bee smoker, safely open beehives and build, maintain and restore equipment. Our students extract & package honey and explore the enterprise opportunities by marketing honey and turning beeswax into saleable products..

Workplace Learning (AHC20122 Certificate II in Agriculture)

Students spend at least one day a week undertaking on-the-job workplace learning on the College’s farm, working under the supervision of College training officers. While working on the College farm students work primarily toward achieving competencies in a Certificate II in Agriculture.

Agricultural Skills (AHC20122 Certificate II in Agriculture)

Students in the Year 11 Agricultural Studies program spend an additional half a day on farm developing the specific skills and knowledge required to achieve Certificate II in Agriculture

competencies. Students who extend their learning and achieve what is required can then enrol in Certificate III in Agriculture AHC30122 (offered in Year 12).

Glossary of Terms

Acronym	Full Name	Description
ATAR	Australian Tertiary Admissions Rank	Calculated for all eligible students completing 4 or more ATAR courses.
NAPLAN	National Assessment Program – Literacy and Numeracy	National tests in Years 3, 5, 7, 9.
OLNA	Online Literacy and Numeracy Assessment	State test for Years 10-12. A pass is required to achieve WACE
RTO	Registered Training Organisation	Endorsement of a provider of vocational training.
SCSA	School Curriculum and Standards Authority	Statutory body for endorsement of all state curriculum provision.
TAFE	Technical and Further Education	TAFE is a Registered Training Organisation which delivers Certificate courses to students.
TISC	Tertiary Institutions Service Centre	TISC coordinates undergraduate applications for public university places.
VET	Vocational Education and Training	Vocational Education and Training enables students to gain qualifications for all types of employment, and specific skills to help them in the workplace.
WACE	Western Australian Certificate of Education	Certificate given to students who have completed Year 11 and 12 successfully.
WASSA	Western Australian Statement of Student Achievement	A statement of results is issued to all students in Year 12.

Year 10

WA Curriculum: English
WA Curriculum: Maths
WA Curriculum: Science
WA Curriculum: HASS
Workplace Learning (**AHC20122** Cert II in Agriculture)
Health Education and Sport
Farm Skills
2 Options from:
- **AUR20720** Certificate II in Automotive Vocational Preparation
- **MEM20422** Certificate II in Engineering Pathways
- **ACM20221** Certificate II in Horse Care
- **AHCSS00117** Introduction to Conservation and Ecosystem Management Skill Set
- **AHCSS00075** Basic Beekeeping Skill Set

Year 11 ATAR

English ATAR
Maths Applications (ATAR) or Essentials (General)
Agribusiness (ATAR)
Agricultural Science and Technology (ATAR)
ATAR Biology
Workplace Learning (**AHC20122** Cert II in Agriculture)
Select up to 2 of the following courses which may be offered:
- Phys Ed Studies
- Materials, Design & Tech - Metals
- **AUR20720** Certificate II in Automotive Vocational Preparation
- **FWP20122** Certificate II in Forest Operations
- **MEM20422** Certificate II in Engineering Pathways
- **AHCSS00075** Basic Beekeeping Skill Set
- **ACM20221** Certificate II in Horse Care

Year 11 Ag & Trades

English General
Maths Essentials (General) or Application (ATAR)
Workplace Learning (**AHC20122** Cert II in Agriculture)
Select:
- Animal Production Systems (General) and/or,
- Plant Production Systems (General)
Select up to 3 of the following courses which may be offered:
- Phys Ed Studies
- Materials, Design & Tech - Metals
- **AUR20720** Certificate II in Automotive Vocational Preparation
- **FWP20122** Certificate II in Forest Operations
- **MEM20422** Certificate II in Engineering Pathways
- **AHCSS00075** Basic Beekeeping Skill Set
- **ACM20221** Certificate II in Horse Care

Year 12 ATAR

English ATAR
Maths Applications (ATAR) or Essentials (General)
Animal Production Systems (ATAR)
Plant Production Systems (ATAR)
Biology (ATAR)
Workplace Learning (**AHC20122** Cert II in Ag & **AHC30122** Cert III in Ag)
Select up to 2 of the following courses which may be offered:
- Phys Ed Studies
- Materials, Design & Tech - Metals
- General Engineering
- **AUR20720** Certificate II in Automotive Vocational Preparation
- **FWP20122** Certificate II in Forest Operations
- **MEM20422** Certificate II in Engineering Pathways
- **AHC21020** Certificate II in Conservation & Ecosystem Management
- **AHCSS00075** Basic Beekeeping Skill Set
- **ACM20221** Certificate II in Horse Care

Year 12 Ag & Trades

English (General)
Maths Essentials (General) or Applications (ATAR)
Workplace Learning (**AHC20122** Cert II in Agriculture)
Select:
- Animal Production Systems (General) and/or,
- Plant Production Systems (General)
Select up to 3 of the following courses which may be offered:
- Phys Ed Studies
- Materials, Design & Tech - Metals
- **AUR20720** Certificate II in Automotive Vocational Preparation
- **MEM20422** Certificate II in Engineering Pathways
- **FWP20122** Certificate II in Forest Operations
- **AHC21020** Certificate II in Conservation & Ecosystem Management
- **AHCSS00075** Basic Beekeeping Skill Set
- **ACM20221** Certificate II in Horse Care



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