The Academic Engine – The Heart of Student Management

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• AUT has been a university since 2000
• Arion is AUT’s Student Management System
• Arion based on a model from the system in place when AUT was a polytechnic
Changes at AUT

• Student Size and Diversity
• Qualification Size and Diversity
• Qualifications more Complex
• Change from Focus on Enrolment to Student Outcomes
Problems with Arion

• Structure Inadequate
• Difficulties
  • Changing Student Outcomes
  • Tracking Academic Regulations for each Student
  • Monitoring Progress-to-Completion
• Student Choice Constrained
Structure Inadequate
The Solution - The Academic Engine

The New Heart of Arion
The Solution

• A new enhanced way of entering academic regulations
• Individualised “Study Plans” for each student
The Academic Engine

- Admission
- Class Enrolment
- Graduation
- Study Plans
- Fees & Finance
- Progress-to-Completion
- Assessment
The Academic Engine

- The New Way of entering Academic Regulations
- Maintains Regulations as Components
- Components used to build Courses of Study
- Courses of Study – template for Student Study Plan
Academic Components

- Paper Lists
- Completion Requirements
- Courses of Study

Produce Study Plans
Component Relationships

Academic Engine

Completion Requirements
  Conditions
    Papers OR Paper Lists OR Component Lists
  Courses of Study

Paper Lists
Component Lists

Study Plan Papers
Study Plan Conditions
Study Plan Requirements
Study Plans
Paper Lists

- Master Paper List consists of the Core and all major, minor and other specialisation paper lists
- Other Paper Lists – for majors, minors, etc
- Elective Paper Lists
Completion Requirements

- Consist of conditions
- Conditions have papers or a paper list

30 points
and 45 points
and 15 points from

Level 6: 146735, 146740
Level 7: 147764, 147772, 147835
Level 7: 147774, 147834, ADVT780
Course of Study as Template
Courses of Study

Structure

Core Papers
90 points
and 30 points
and 15 points

Level 5: 145701, 145708, 145717, 145718, PHIL380
Level 6: 146719, COMM601
Level 7: 147717

Majors

Advertising Creativity
30 points
and 45 points
and 15 points from

Level 6: 146735, 146740
Level 7: 147764, 147772, 147835
Level 7: 147774, 147834, ADVT780

Electives
135 points from
Study Plan created from Course of Study

• Student Study Plans are created from the current CoS
Dealing with Complexity

• Modular Completion Requirement
  • Allow to choose from list of specialisations
  • Defer choosing specialisations

• Configurable Courses of Study
  • Single Major, Major and Minor, Double Major
Changing Regulations

• Academic Component Maintenance
• Versioning
• Verify/Publish
Student Study Plans
Bachelor's Degree in Communication Studies (Advertising Creativity)
- Core - AK3303 Core - 135.00 Points
  - 90 Points from Level 5
  - 30 points from Level 6
  - 15 points from Level 7
- Major - Advertising Creativity - 105.00 Points
  - 30 points from Level 6
  - 45 points from Level 7
  - 15 points from Level 7
  - 15 points from
- Elective - AK3303 Zero Point Electives - 120.00 Points
  - Points from
Study Plan Functionality

• Study Plan Manage – Personalisation, Changing CoS
• Study Plan Modelling – What if scenario building
Study Plan Manage

• Personalisation
  • Allocate,
  • Allocate Credit,
  • Waive Requirements,
  • Make Mandatory,
  • Vary Points,
  • Exempt

• Change Course of Study
### Study Plan Modelling

**Welcome to Student Study Plan**

**ID:** 16884883 Piper Wright (884883)

#### Select Study Plan
- AK3704 Social Studies Extended Major

#### Select Course of Study
- AK3704 Social Studies Extended Major - (360.00 points)

#### AK3704 Core - (90.00 points)
- 15 points from (level 5)
- 15 points from (multi-level)
- and 15 points from (level 5)
- and 15 points from (level 6)
- and 30 points from (level 7)

**AK3704 Social Sciences - Extended Major - (210.00 points)**
- 60 points from (level 5)
- and 30 point from
- 60 points from (level 6)
- and 15 points from (level 7)
- and 45 points from (level 7)

**AK3704 60 point Electives - (60.00 points)**
- 60 points from

**Progress Summary**
- **AK3704 Core - (90.00 points)**
  - 30 / 90 Points
- **AK3704 Social Sciences - Extended Major - (210.00 points)**
  - 0 / 210 Points
- **AK3704 60 point Electives - (60.00 points)**
  - 0 / 60 Points

**Papers Not Applied**
- 116232 : Photography - (-15.00 points)
- 145701 : Interpersonal Communication - (-15.00 points)
- 145703 : Principles of Writing - (-15.00 points)
- 145708 : Media Communication I - (-15.00 points)
- 145717 : Image and Sound - (-15.00 points)
Impact of Academic Engine/Study Plans
What Study Plans mean for Staff

• Greater Flexibility from a System Perspective
• More Comprehensive Information on Student Journey
• Reporting of and Communication with Student Cohorts Enhanced
• Able to Give Flexible and Accurate Advice
• Possible Disruption?
• Potential Impact on the Viability and Availability of Offerings
What Study Plans Mean for Students
What Study Plans mean for Students

• Students know
  • How to satisfy their current outcome
  • What it takes to go from their current state to any other qualification offered by AUT
  • The complete possibilities of combinations of specialisations
What Study Plans mean for AUT

• Focus on student outcomes
• Information visible across university
• More flexible structure
• More aligned to current and future priorities
Challenges

• Implementing such a comprehensive change to an existing system
• Gaining Buy-in from members of staff
• The need for
  • Standardised naming conventions
  • More cross-university planning and consistency of processes