



## INTERNATIONAL COOPERATION AGREEMENT

Universitas Brawijaya (UB), Malang, Indonesia and the Queensland University of Technology (QUT), Brisbane, Australia agree that the encouragement and development of co-operation and exchange in all areas of mutual academic interest is desirable. Both parties, therefore, wish to expand the basis for friendship and co-operative educational exchange and have set forth the following agreement.

### ARTICLE 1

The purpose of this agreement includes, but is not limited to, the following:

1. Development of joint venture projects between UB and QUT.
2. Organisation of joint academic and scientific activities, such as courses, conferences, seminars, symposia or lectures.
3. Exchange of staff and/or students.
4. Exchange of materials and publications of common interest.

Co-operative projects arising from this agreement may include any of the academic disciplines represented at UB and QUT.

### ARTICLE 2

Themes of joint activities and conditions for utilising the results achieved, as well as arrangements for visits, exchanges, and other forms of cooperation will be further discussed and developed mutually for each specific case. All financial arrangements will be negotiated on a case-by-case basis.

In order to carry out and fulfil the goals of this agreement both parties will appoint co-ordinators for the development and management of joint activities. Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties. A letter of agreement will include such items as:

1. Elaboration of the responsibilities of each institution for the agreed upon activity.
2. Schedules for the specific activity.
3. Budgets and sources of financing for each activity.
4. Any other items deemed necessary for the efficient management of the activity.

The contact persons will be responsible for the evaluation of activities under this agreement according to the practices of the respective parties. Letters of agreement will be approved by both sides according to the normal procedures adopted by the signatory party.

This document is a statement of understanding and is not intended to create binding or legal obligations on either party.

### ARTICLE 3

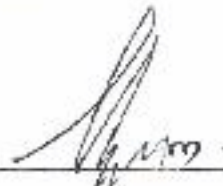
This agreement shall be valid for five (5) years from the date of signing. It shall be reviewed by both parties six (6) months prior to expiry and may be renewed for a further term by mutual agreement.

This agreement may be terminated by either party at any time provided that the terminating party gives a minimum of six (6) months notice in writing.

As witness to their consent to this agreement, the appropriate authorities hereunto provide their signatures.

UniversitasBrawijaya  
Indonesia

Queensland University of Technology  
Australia



 Prof. Dr. Ir. Yogi Sugito  
Rector of UniversitasBrawijaya

Professor Scott Sheppard  
Deputy Vice-Chancellor  
(International and Development)

Date: 13 May 2013

Date: 10 July 2013



## Dual Degree Articulation Agreement between the Faculty of Mathematics and Natural Sciences, Universitas Brawijaya and the Science and Engineering Faculty, QUT

### Article 1 – Preamble

The Faculty of Mathematics and Natural Sciences, Universitas Brawijaya (hereafter referred to as UB) and the Science and Engineering Faculty at QUT (hereafter referred to as QUT-SEF), have agreed to enter into a managed dual degree agreement based on mutual understanding as indicated below. This Agreement is not intended to be legally binding but is intended to outline the basis for a cooperative arrangement between the parties.

### Article 2 – Objective

The parties agree to collaborate in order to achieve the following goals:

- Increase the options for international studies for Mathematic and Science students at UB.
- Maximise the advanced standing opportunities and optimise the academic transition process for students from UB pursuing chosen courses at QUT.
- Enhance existing markets and/or establish new markets for courses at both institutions.
- Establish mutually beneficial interaction between academic staff at the two institutions.

### Article 3 – Eligibility

- 3.1 QUT agrees in principle to accept applications from students seeking admission to the respective QUT programs who have completed a minimum of five semester equivalent full-time at UB in an approved undergraduate program, subject to their meeting the criteria / admissions requirements set out below in Article 3.2.

At the time of the signing of this Agreement, eligible undergraduate programs are:

UB	QUT
Sarjana Science (Mathematics)	M501 Bachelor of Maths (Applied and Computational Mathematics)
Sarjana Science (Statistics)	M501 Bachelor of Maths (Statistical Science)

- 3.2. To be eligible to undertake this dual degree program, UB students must meet all of the following criteria:

- i. Successfully Pass all required subjects of the standard course structure of the first five semesters full-time of study of the respective UB program as outlined in Appendix 1;
- ii. Achieve a **minimum** overall Grade Point Average of 3 (on UB's 4 point grade scale), for the UB program;
- iii. Satisfaction of the QUT English language requirements for admission; refer to published required minimum scores:  
<http://www.qut.edu.au/international/applying/step-3-check-you-meet-the-entry-requirements/english-language-requirements>
- iv. commence the QUT Bachelor of Maths from 2016 onwards

- 3.3 UB dual degree students will follow the prescribed QUT study plan as determined by the QUT undergraduate Academic Co-ordinator prior to the commencement of classes at QUT.

- 3.4 QUT current application procedures and entry requirements are outlined in Appendix 2.

- 3.5 Only UB students with prior written approval from UB will be considered as part of this dual degree arrangement. UB Students must submit an official recommendation letter signed by UB

- 3.6 UB will recognise the units undertaken at QUT as part of this arrangement and will grant credit towards their UB award

#### **Article 4 – Financial matters**

- 4.1 JB students, or their sponsors, admitted to the Bachelor programs at QUT under this Agreement will pay tuition fees to QUT for the semesters spent at QUT.
- 4.2 Tuition fees payable to QUT will be invoiced at the standard international fee rate and will be payable on a semester-by-semester basis by the approved Census Date
- 4.3 All other costs including travel, visa, accommodation/living expenses, books and supplies, course materials, computer use fees, personal expenditure and health insurance will be borne by the student. It is the responsibility of students to arrange and pay for suitable health insurance cover for the duration of the study program at QUT.

#### **Article 5 - Student Support and Obligations**

- 5.1 UB Dual Degree students will have equal access, opportunity and support at QUT in terms of orientation and ongoing support services throughout the period of enrolment at QUT. QUT Student Services provides assistance to incoming students seeking information about accommodation options, however it remains the responsibility of students to find suitable accommodation for the duration of their studies at QUT.
- 5.2 All students studying at QUT must abide by Australian laws and the regulations, rules and policies of QUT
- 5.3 All students must comply with the requirements of their student visa including requirements concerning full-time enrolment, attendance and participation in all learning activities and all other applicable rules and regulations.
- 5.4 Students need to complete a 'Third Party Authorisation for Student Information' (TPA) form and attach this with QUT Application form. TPA form is available at:  
[http://www.studentservices.qut.edu.au/pdfs/forms/tpa\\_form.pdf](http://www.studentservices.qut.edu.au/pdfs/forms/tpa_form.pdf)  
Completion of this form enables the release of academic results to UB. Students who refuse to complete this form are deemed to not participate in this dual degree arrangement.

#### **Article 6 – Institutional Responsibilities**

##### **UB**

- 6.1 UB will identify one particular person to serve as liaison person for this articulation agreement and communication between the parties will be directed as far as is practicable through these two people.
- 6.2 UB will take the responsibility of ensuring that all activity taken under this agreement conforms to any relevant local or national government laws, policies or procedures.
- 6.3 UB will annually confirm or update the information on progression rules, program requirements and curriculum details of relevant study plans, so that QUT-SEF may confirm or modify the details of credit to be awarded. UB will notify QUT-SEF of any changes to the prescribed course and/or unit syllabus.
- 6.4 UB will ensure that students at UB have ready access to information supplied by QUT-SEF concerning total credit available, specific unit exemptions and any conditions on such credit/exemptions, with the respect to the respective Bachelor program at QUT
- 6.5 UB will assist students in making applications to enrol in QUT-SEF such that conditional acceptances can be made in time to facilitate obtaining student visas for Australia.

## **QUT**

- 6.6 QUT-SEF will identify one particular person to serve as liaison person for this articulation agreement. A corresponding liaison person will be appointed at UB and communication between the parties will be directed as far as is practicable through these two people.
- 6.7 QUT will take the responsibility of ensuring that all activity taken under this agreement conforms to any relevant local or national government laws, policies or procedures, in particular to the Education Services for Overseas Students (ESOS) Act.
- 6.8 QUT-SEF will annually confirm or update the information on the credit to be awarded on the basis of the specified UB course, towards the QUT Bachelor of Engineering.
- 6.9 QUT-SEF will assist UB to supply admission and enrolment advice to students at UB, who intend to articulate to QUT.
- 6.10 the appointed QUT-SEF Liaison Coordinator will transmit the students' academic results to the UB Liaison Coordinator, as soon as they are available upon the completion of the four semesters.

## **Article 7 – Recruitment and Advertising**

- 7.1 UB is authorized to use information supplied by QUT in marketing QUT's Bachelor program and in advertising its relationship with QUT. Prior approval in writing shall be required for use of the QUT logo in each instance.
- 7.2 QUT-SEF will assist in this process by supplying course information and marketing material, and by including information about this articulation on the QUT website.
- 7.3 Marketing or advertising material (including websites and other electronic media) generated by UB and which refers to QUT, but which was not directly supplied by QUT, should be submitted to QUT for approval by the QUT International Office before distribution. This includes translations of material obtained in English from QUT and translated by UB.

## **Article 8 – Duration and Termination of Agreement**

- 8.1 This Agreement takes effect from the date when it is signed by both institutions. It is valid for five years and may be renewed subject to approval by both institutions.
- 8.2 Either institution may, on six months notice in writing, terminate this Agreement in advance of its normal expiration or request the negotiation of its conditions. Under such circumstances, QUT may decline to admit new students into this arrangement. Any students who have commenced under the arrangements specified in this agreement shall be allowed to complete as per the arrangements before the termination comes into effect.
- 8.3 Changes and supplements to the terms of the Agreement should be made in writing. These changes should be verified by the signatories of the original agreement, or their delegates or successors for that purpose.

Faculty of Mathematics and natural Science  
Universitas Brawijaya

Science and Engineering Faculty  
Queensland University of Technology

\_\_\_\_\_  
Professor Dr Marjono, MPhil  
Dean

Date:

\_\_\_\_\_  
Professor David Siddle  
Executive Dean

Date:

Witnessed by: Science and Engineering Faculty  
Queensland University of Technology

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Mr Bernard Murchison  
Assistant Dean International and Engagement

Date:

Appendix 1

**Dual Degree Articulation Agreement  
Science and Engineering Faculty, QUT  
Schedule of Advanced Standing  
for  
Universitas Brawijaya**

UB program	QUT program	Minimum UB GPA required	units of advanced standing	Duration of QUT course	QUT intake
Sarjana Science (Mathematics) 5 semesters	Bachelor of Mathematics – MS01 (Applied and Computational Mathematics)	3 (on a 4 point scale) and a Pass in all units	4 semesters	2 semester	February
Sarjana Science (Statistics) 5 semesters	Bachelor of Mathematics – MS01 (Statistical Science)	3 (on a 4 point scale) and a Pass in all units	4 semesters	2 semester	February

- This advanced standing is based on the UB 2013 course syllabus provided.
- QUT advanced standing and sample study plans outlined below are based on 2016 program and are subject to change

Universitas Brawijaya Mathematics Program into  
QUT BMaths (Applied & Computational Mathematics)

**Advanced standing**

QUT Unit	Required UB Unit(s)
MXB101	MAM4141 Intro to probability theory MAM4243 Mathematical statistics
MXB102	MAM4111 Sets and logic MAM4113 Abstract algebra MAM4115 Discrete mathematics 1
MXB103	MAM4090 Basic computing MAM4233 Numerical methods
MXB105	MAM4121 Calculus 1 MAM4123 Analytical geometry MAM4221 Calculus 2
MXB106	MAM4211 Linear algebra MAM4131 Ordinary differential equation
MXB107	MAM4280 Fundamental statistics
MXB201	MAM4112 Advanced linear algebra*
MXB202	MAM4122 Calculus 3 MAM4222 Calculus 4
MXB221	MAM4131 Ordinary differential equations
MXB222	MAM4233 Numerical methods
2 core options in BMaths core	Miscellaneous remaining UB compulsory units
4 unit minor slot in BMaths	Miscellaneous remaining UB compulsory units

\*MAM4112 is an elective and MUST be taken.

By completing the first five semesters of the UB mathematics program with passing grades, UB students would cover the 8 BMaths core units, a 4 unit minor, and the 4 1<sup>st</sup>/2<sup>nd</sup> level units of the Applied and Computational Mathematics Major of the BMaths at QUT.

**2 semester QUT study plan**

Semester 1	Semester 2
MXB321 Applied transport theory	MXB323 Dynamical systems
MXB322 Partial differential equations	MXB324 Computational fluid dynamics
Option	Option

Option	Option
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Students may take any of the following mathematics units in the "Option" slots:

MXB231 Financial mathematics 1, MXB232, Operations research 1, MXB241 Probability and stochastic modeling 2, MXB242 Regression and design, MXB161 Computational explorations, MXB261 Modelling and simulation science, MXB251 Number theory and abstract algebra, MXB351 Coding theory and graph theory

Universitas Brawijaya Statistics Program into  
QUT BMaths (Statistical Science)

Advanced standing

QUT Unit	Required UB Unit(s)
MXB100	MAM4190 Fundamental mathematics
MXB101	MAS4218 Intro to probability theory MAS4121 Statistics methods 1
MXB102	MAM4111 Sets and logic
MXB103	MAI4090 Basic computing MAS4216 Numerical analysis
MXB105	MAS4215 Mathematics 1 MAM4190 Fundamental mathematics MAS4116 Mathematics 2
MXB106	MAM4190 Fundamental mathematics MAS4211 Matrix and vector space
MXB107	MAS4121 Statistics methods 1 MAS4221 Statistics methods 2 MAS4231 Regression analysis
MXB201	MAS4211 Matrix and vector space
MXB202	MAS4215 Mathematics 1
MXB241	MAS4212 Mathematical statistics 2 MAS4113 Stochastic processes* MAS4243 Simulation methods*
MXB242	MAS4123 Nonparametric statistics MAS4132 Introduction to linear models MAS4134 Statistical computation MAS4223 Variance analysis* MAS4235 Advanced regression analysis*
1 core option in BMaths core	Miscellaneous remaining UB compulsory units
4 unit minor slot in BMaths	Miscellaneous remaining UB compulsory units

\*MAS4113, MAS4243, MAS4223, MAS4235 are electives and MUST be taken.

By completing the first five semesters of the UB mathematics program including the indicated "electives", with passing grades, UB students would cover the 8 BMaths core units, a 4 unit minor, and the 4 1<sup>st</sup>/2<sup>nd</sup> level units of the Statistical Science Major of the BMaths at QUT.

2 semester QUT study plan

Semester 1	Semester 2
MXB341 Statistical inference	MXB323 Modelling dependent data
MXB342 Statistical techniques	MXB324 Modelling non-normal data
Option	Option
Option	Option

Students may take any of the following mathematics units in the "Option" slots:

MXB231 Financial mathematics 1, MXB232, Operations research 1, MXB221 Ordinary differential equations, MXB161 Computational explorations, MXB261 Modelling and simulation science, MXB251 Number theory and abstract algebra, MXB351 Coding theory and graph theory.



## Appendix 2

### Application Procedures

Students are required to finalise their acceptance and arrive at QUT on time for classes and Orientation week. Students are also strongly advised to allow for sufficient time for visa application. Hence, it is suggested that applications for admission are put in preferably at least four months prior to the commencement of the course. It is highly recommended that students attend Orientation week at the beginning of the semester.

UB students applying for entry into a QUT degree course should complete a QUT Form F and return it with certified copies of UB Bachelor academic transcript, and list units currently enrolled.

The Form F can be downloaded from the following web-site:

[http://www.student-services.qut.edu.au/ads/site/inf\\_frm.pdf](http://www.student-services.qut.edu.au/ads/site/inf_frm.pdf)

A non-refundable application fee of AUD\$55 (\$50+10% GST) is normally required from all applicants. This fee is waived if the application is received via UB as a cohort. To facilitate application processing, UB shall send applications to QUT in a batch. Applications should be emailed to QUT Admissions (as indicated on the F form) with a copy to the QUT-SEF liaison person.

F forms are processed on receipt and successful applicants are made an offer for the next available intake. Conditional offers can be made based on results available at the time of application. Offers are confirmed after receipt of final results and any other stipulated conditions such as English scores. Estimated turnaround time for processing of applications is approximately two weeks.