

Appendix 1: Programme Specifications

1. Programme title	BSc (Hons) Professional Practice Advanced Pilot Aviation
2. Awarding institution	Middlesex University
3. Teaching institution	Middlesex University
4. Programme accredited by	The programme includes Civil Aviation Authority (CAA) approved professional pilot training accredited as APL for levels 4 &5.
5. Final qualification	BSc (Hons)
6. Academic year	2019/20
7. Language of study	English
8. Mode of study	Full Time Work Based Learning
9. Criteria for admission to the programme	
<ol style="list-style-type: none"> 1. Be at least 18 years of age 2. Have the right to live and work in the EU in their own right, rather than by right of marriage; 3. Have at least 2 'A' level passes at grade C or above, or equivalent academic qualifications; 4. Hold a EASA/JAA Class 1 Medical certificate; 5. Be eligible for issue of an airside pass 6. Have achieved a minimum of 2000 hours commercial flying and an unfrozen ATPL pilot's licence 7. Be able to demonstrate the ability to use the English language in accordance with Appendix 1 to JAR-FCL 1.200. IELTS 6.0 (min of 5.5 in each component) will be required 	
10. Aims of the programme	
<p>The programme aims:</p> <ul style="list-style-type: none"> • To provide opportunities for individuals to combine the prior achievement of a CAA approved professional aviation pilot license with gaining a BSc (Hons) degree through work-based learning. • To broaden opportunities for access to degree level qualifications for professional pilot who may not have had the opportunity to enter higher education before commencing pilot training. • To enable individuals to develop higher-level knowledge and understanding, and cognitive, practical, personal and enabling skills from the study of their own work-based learning and professional practice as a professional pilot. • To become an active reflective practitioner/pilot. • To provide opportunities for individuals to consolidate the high-level knowledge, understanding and skills required to operate in a multi crew commercial environment in the commercial air transportation sector. 	

- To support career progression to command.

11. Programme outcomes

The programme learning outcomes correspond to Middlesex University's Work Based Learning Level Descriptors at levels 4, 5 and 6. These Descriptors define the learning expectations for work-based learning programmes in terms of Knowledge and Understanding (KU), Cognitive Skills (CS), Practical Skills (PS) and Personal and Enabling Skills (PES) at each level of academic achievement.

Level 4 is achieved through APL. However, for information, this will enable the student to:

1. Have built a detailed knowledge of the key aspects of flight and navigation and be able to demonstrate an understanding of how they can be applied in practice (KU, CS)
2. Be able to demonstrate a knowledge and understanding of the underlying scientific aspects of flight (KU)
3. Recognise the importance of communication and performance in flying (PS)
4. Demonstrate understanding of the performance of professional aviation pilot tasks and begin to engage in reflective practice (CS, PES)
5. Be prepared to work effectively with others (PS, PES)
6. Demonstrate understanding of the legal responsibilities and air law, associated with the role (KU, PES)

Level 5 is achieved through APL. However, for information, this will enable the student to:

1. Have a detailed and workable knowledge and understanding of meteorology and flight principles (KU)
2. Demonstrate a broad understanding of relevant professional pilot contexts to inform the evaluation of own practice. (KU, CS)
3. Be able to systematically reflect on and critically analyse performance of self in the context of professional practice and suggest improvements through use of reflective models (CS, PES)
4. Select and apply appropriate complex theories to simulated flight performance scenarios (CS, PS)
5. Transfer simulated performance scenario skills to a professional work environment (CS, PS, PES)
6. Demonstrate awareness of personal responsibility within the mandated professional pilot framework and can identify exceptions (CS, PES)

On successful completion of level 6 the student will (in addition to the above):

1. Be able to identify and apply knowledge that demonstrates a critical understanding of the interrelationship between theory and professional aviation pilot practice (KU)
2. Demonstrate understanding of key codes of professional aviation practice and demonstrates a coherent and in-depth knowledge of how they apply to the work/practice of self and others (KU)

3. Be able to demonstrate analysis and synthesis of a range of information, including some advanced theoretical perspectives, that informs judgments and contributes to a critical evaluation of own professional pilot practice (CS)
4. Demonstrate that professional critical reflection is an established aspect of own practice, informed by a developed understanding of the techniques of critical reflection and critical engagement with other practitioners in the commercial airline sector contributing to their coherent development of own practice (CS)
5. Systematically develop work-based projects and/or inquiries that are designed to transform and improve an aspect of own or others' professional aviation pilot practice (PS)
6. Demonstrate the ability to react quickly and safely to aircraft unplanned events, applying techniques of analysis and enquiry and making decisions in unpredictable contexts (CS, PS)
7. Be able to negotiate effectively in a professional aviation context and manage conflict, communicating information, ideas, problems and solutions to specialist and non-specialist audiences (CS, PES)

Learning and teaching

The programme is delivered through a blended learning and teaching approach in line with the University's Learning, Teaching and Assessment strategy. The following methods are offered to enable students to develop their knowledge and understanding, cognitive skills, practical skills and personal and enabling skills:

- Programme induction and review (online workshops or asynchronous discussions)
- Simulated and/or actual practical flying
- Reflective practice
- Practice/Work-based learning
- Formative feedback on work from tutors through blended approaches including; face to face, via email, webcam, UniHub discussion boards and workshops
- Tutor-led face to face and online seminars and workshops used for discussion and small group work
- Student-led interaction via specific assessment tasks and online discussion forums including UniHub
- Student-led interaction with workplace colleagues and other practitioners (where appropriate)
- Self-directed learning facilitated by programme and module handbooks, UniHub and other learning materials
- Practical application of knowledge and understanding
- Post application reflective practice and debriefing
- Online Learning Journal

Assessment

Assessment criteria for the programme are linked to the learning outcomes, in line with the University's Learning, Teaching and Assessment strategy. Knowledge and understanding,

cognitive skills, practical skills and personal and enabling skills are assessed via:

- Practical flying performance assessment
- Learning logs
- Reflective reports
- Review and evaluation of learning
- Portfolio with reflective commentary
- Close observation of professional tasks with questioning
- Action and development plans
- Recorded reflective audio and/or visual presentation
- Case study research and reviews
- Recorded Student led symposium discussion
- Practice based project/dissertation

12. Programme structure (levels modules credits and progression requirements)

12.1 Programme and module structure diagrams

Please refer to the diagrams for each route on pages 13 and 14 above.

12.2 Levels and modules

Level 4 - APL

Level 5 - APL

Level 6

COMPULSORY	OPTIONAL	PROGRESSION REQUIREMENTS
<p>Students must take all of the following:</p> <ul style="list-style-type: none"> • Review of Learning and Developing Reflective Practice • Crew Resource Management • Threat and Error Management • Negotiated Professional Practice Project/ Dissertation 	<p>There are no optional modules</p>	<p>Approved APL for levels 4 & 5. All level 6 modules must be passed by the end of the programme to gain the qualification.</p>

12.5 Non-compensatable modules	
Module levels	Module code
6	Not applicable as all modules are non-compensatable
13. Curriculum map	
<p>This section shows the highest level at which programme outcomes are to be achieved by all graduates, and maps programme learning outcomes against the modules in which they are assessed.</p> <p>Students must study and pass all modules in order to achieve the programme learning outcomes. Module learning outcomes contribute to the achievement of each programme learning outcome as follows:</p>	

Table - Level 6 Programme Learning Outcomes by Modules

Programme Learning Outcomes	Review of Learning and Developing Reflective Practice PPT3007	Crew Resource Management PPT3008	Threat and Error Management PPT3009	Negotiated Professional Practice Project/Dissertation PPT 33010
Be able to identify and apply knowledge that demonstrates a critical understanding of the interrelationship between theory and professional aviation pilot practice (KU)	X	X	X	X
Demonstrate understanding of key codes of professional aviation practice and demonstrates a coherent and in-depth knowledge of how they apply to the work/practice of self and others (KU)	X	X	X	X
Be able to demonstrate analysis and synthesis of a range of information, including some advanced theoretical perspectives, that informs judgments and contributes to a critical evaluation of own professional pilot practice (CS)	X	X	X	X
Demonstrate that professional critical	X	X	X	X

reflection is an established aspect of own practice, informed by a developed understanding of the techniques of critical reflection and critical engagement with other practitioners in the commercial airline sector contributing to their coherent development of own practice (CS)				
Systematically develop work- based projects and/or inquiries that are designed to transform and improve an aspect of own or others' professional aviation pilot practice (PS)		X	X	X
Demonstrate the ability to react quickly and safely to aircraft unplanned events, applying techniques of analysis and enquiry and making decisions in unpredictable contexts (CS,PS)		X	X	X
Be able to negotiate effectively in a professional aviation context and manage conflict, communicating information, ideas, problems and solutions to specialist and non-specialist audiences (CS. PES)		X	X	X

14. Information about assessment regulations

1. **Objectives Not Achieved** - Remedial training will be required if the objectives are to be achieved.
2. **Objectives Partially Achieved** - One or more exercises were not of the required standard, requiring remedial training.
3. **Objectives Achieved** - Objectives met, and each of the exercises was of course standard or better.
4. **Objectives Exceeded** - Objectives exceeded, and each of the exercises was of course standard or better

All modules will be assessed in accordance with standard Middlesex University procedures. All assessment of your modules will be based on coursework and will be graded on the MDX 1-20 grade scale where 1 is high and 20 is low.. The grades for these level 6 modules will determine the Final Honours degree classification.

15. Placement opportunities, requirements and support (if applicable)	
Not applicable. As a work-based learning programme, all students will be engaged in work at level 6 while they are undertaking their studies.	
16. Future careers (if applicable)	
All students will already be in employment as a commercial airline pilot. However, the PPAPA degree is expected to support enhanced career progression.	
17. Particular support for learning (if applicable)	
Support for learning for individuals undertaking this programme provided by Middlesex University will include the following:	
From Middlesex University	
<ul style="list-style-type: none"> • Support through the University's UniHub and other on-line learning technologies • Online seminars and discussion activities • Blended learning support • Workshops and action learning delivered on-line • Module resources on UniHub • Support from Module Tutor, Module Leaders and Programme Leader • Induction sessions, workshops and seminars • eAssessment activities such as Turnitin technologies 	
18. JACS code (or other relevant coding system)	H460
19. Relevant QAA subject benchmark group(s)	Not applicable as current QAA Subject Benchmark groups do not cover this area of study. As a work-based learning programme, the Middlesex University Work Based Learning Level Descriptors defines the learning expectations for the award of the Honours degree.
20. Reference points	
None of the present Quality Assurance Agency for Higher Education (QAA) Subject Benchmark Statements cover this area of study. For the purpose of the validation of this programme, a variety of external reference points have been utilised:	
<ul style="list-style-type: none"> • Middlesex University Work Based Learning Academic Level Descriptors (2011) • QAA UK Quality Code for Higher Education (2018) • Oxford Non-Technical Skills Scale (NOTECHS) • National occupational standards for Professional Pilots • Civil Aviation Authority guidance and licensing • European Union COMMISSION REGULATION (EU) No 1178/2011 (3 November 2011). 	

- European Aviation Safety Agency, Acceptable Means of Compliance and Guidance Material to Part-FCL, Initial issue, (15 December 2011)

21. Other information

The Middlesex University regulations for appeals and complaints apply to this programme and the award of the Honours degree. The separate Civil Aviation Authority (CAA) procedures for appeals and complaints apply to the award of CAA examinations and professional pilot licensing.

Please note programme specifications provide a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve if s/he takes full advantage of the learning opportunities that are provided. More detailed information about the programme can be found in the rest of your programme handbook, the programme and module pages on MDX MyLearning and the university regulations.