

Diploma Policy (Criteria for Conferment of Degrees)

Master's Program

- **Graduate School of Life Science and Systems Engineering**

(1) Knowledge and understanding

[Advanced specialized knowledge and understanding]

An advanced level of specialized knowledge, sufficient to undertake creative research and development as an engineer in each of the specialized fields of life science and systems engineering.

[Knowledge and understanding of engineering and technology in the context of society]

An understanding of the role that each specialized field of life science and systems engineering plays in society.

(2) Generic skills

[Advanced practical problem-solving skills]

The skills to logically analyze and solve problems in each of the specialized fields of life science and systems engineering.

[Highly developed presentation skills]

The presentation skills needed to propose and publicly communicate new technologies in each of the specialized fields of life science and systems engineering.

[Communication skills]

The ability to communicate accurately based on logical thinking in each of the specialized fields of life science and systems engineering and the ability to demonstrate this ability in international settings.

(3) Attitude and ambition

[The attitude and ambition of an engineer]

A recognition of the role that an engineer in each of the specialized fields of life science and systems engineering should play in society.

[Autonomy] [Teamwork]

The ability to design proposals and manage work toward developing solutions to problems in each of the specialized fields of life science and systems engineering autonomously or as a member of a team.

• **Department of Biological Functions Engineering**

(1) Knowledge and understanding

[Advanced specialized knowledge and understanding]

An advanced level of specialized knowledge, sufficient to undertake creative research and development as an engineer in each specialized field of biological functions engineering.

[Knowledge and understanding of engineering and technology in the context of society]

An understanding of the role that each specialized field of biological functions engineering plays in society.

(2) Generic skills

[Advanced practical problem-solving skills]

The skills to logically analyze and solve problems in each of the specialized fields of biological functions engineering.

[Highly developed presentation skills]

The presentation skills needed to propose and publicly communicate new technologies in each of the specialized fields of biological functions engineering.

[Communication skills]

The ability to communicate accurately based on logical thinking in each of the specialized fields of biological functions engineering and to demonstrate this ability in international settings.

(3) Attitude and ambition

[The attitude and ambition of an engineer]

A recognition of the role that an engineer in each of the specialized fields of biological functions engineering should play in society.

[Autonomy] [Teamwork]

The ability to design proposals and manage work toward developing solutions to problems in each of the specialized fields of biological functions engineering autonomously or as a member of a team.

- **Department of Human Intelligence Systems**

(1) Knowledge and understanding

[Advanced specialized knowledge and understanding]

An advanced level of specialized knowledge, sufficient to undertake creative research and development as an engineer in each specialized field of human intelligence systems engineering.

[Knowledge and understanding of engineering and technology in the context of society]

An understanding of the role that each specialized field of human intelligence systems engineering plays in society.

(2) Generic skills

[Advanced practical problem-solving skills]

The skills to logically analyze and solve problems in each of the specialized fields of human intelligence systems engineering.

[Highly developed presentation skills]

The presentation skills needed to propose and publicly communicate new technologies in each of the specialized fields of human intelligence systems engineering.

[Communication skills]

The ability to communicate accurately based on logical thinking in each of the specialized fields of human intelligence systems engineering and to demonstrate this ability in international settings.

(3) Attitude and ambition

[The attitude and ambition of an engineer]

A recognition of the role that an engineer in each of the specialized fields of human intelligence systems engineering should play in society.

[Autonomy] [Teamwork]

The ability to design proposals and manage work toward developing solutions to problems in each of the specialized fields of human intelligence systems engineering autonomously or as a member of a team.

Doctoral Program

(1) Knowledge and understanding

[Leading-edge specialized knowledge and understanding]

Leading-edge knowledge in the fields of life science and systems engineering as well as knowledge of related fields.

[Knowledge and understanding of engineering and technology in the context of society]

An understanding of the social ripple effects of research and development in the fields of life science and systems engineering.

(2) Generic skills

[Leading-edge practical problem-solving skills]

The specialized skills needed to perform leading-edge research and development in the fields of life science and systems engineering.

[Communication skills]

A mastery of the presentation and communication skills needed to perform international research and development in the fields of life science and systems engineering and to publicly communicate their findings in international settings.

(3) Attitude and ambition

[The attitude and ambition of an engineer] [Autonomy] [Teamwork]

A broad interdisciplinary perspective as an engineer tasked with leading-edge research and development in the fields of life science and systems engineering, with a steady focus on the latest research trends. A willingness to autonomously discover challenges that address social needs and autonomously produce innovative technological creations. The ability to clearly communicate one's course of action to others and seek their cooperation in order to achieve technological development goals.