## World-leading Innovative Graduate Study Program Co-designing Future Society (WINGS-CFS)

or (未来に向けた課題指向型文理協創プログラム)

(Issue-Oriented Arts and Science Synergetic Program for the Future)

**[Target]** Although common globally, we face many complex and compounded issues that must be solved based on the historical, political, and socio-economic contexts specific to each region, and there is an urgent need to develop cross-disciplinary human resources who can co-design future society.

- Declining population and birthrate, and aging population
- Intergenerational, gender and minority disparities
- Ethics of life and death in the context of increasing longevity
- Regional unevenness and disparities in socioeconomic resources, etc.

Current Status and Issues in Graduate Education

Conventional graduate school education has focused mainly on fostering successors but do not have envisions to educate highly intelligent human resources who will be active in society to solve practical issues.

Good practice in interdisciplinary education are very limited, because "joint research" or "academic fusion" between multiple disciplines has become a goal in itself.



- We should develop human resources who can change and advance their careers in response to academic progress and social needs.
- In addition to "acquisition of specialized knowledge", "acquisition of problem-solving skills (advanced learning skills)" is required.
- Methodologies from various fields of expertise should be brought together to create novel approaches and social innovations.
- The issues are compounded and complex. Therefore, we should take up the challenge of systematic cross-disciplinary education with a focus on the synergies of arts and science.

Capacity Development in Arts and Science Synergistically, and integrated promotion of graduate school reform

**Supporting to build a global commons** 

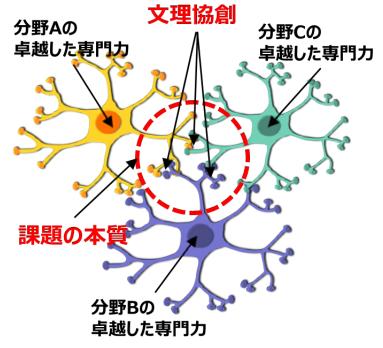
## Arts and Science Synergistic Talents

### Target Talent

- Excellence in the field of expertise and the flexibility not to stick to it.
- Aim for long-term global optimization rather than short-term local optimization.
- Designs synergistic co-design to solve problems that are difficult to achieve alone.

## 3 capabilities

- Resilient social imagination to discover social issues
- Ability to understand others and empathize with different fields and experts
- Future-oriented public empathy, not resigned to affirming the status quo





#### integrated promotion of graduate school reform

Promote faculty awareness and academic renewal, and drive the reform of the graduate school into a place for fostering knowledge professionals who create diverse values and systems as a global commons.

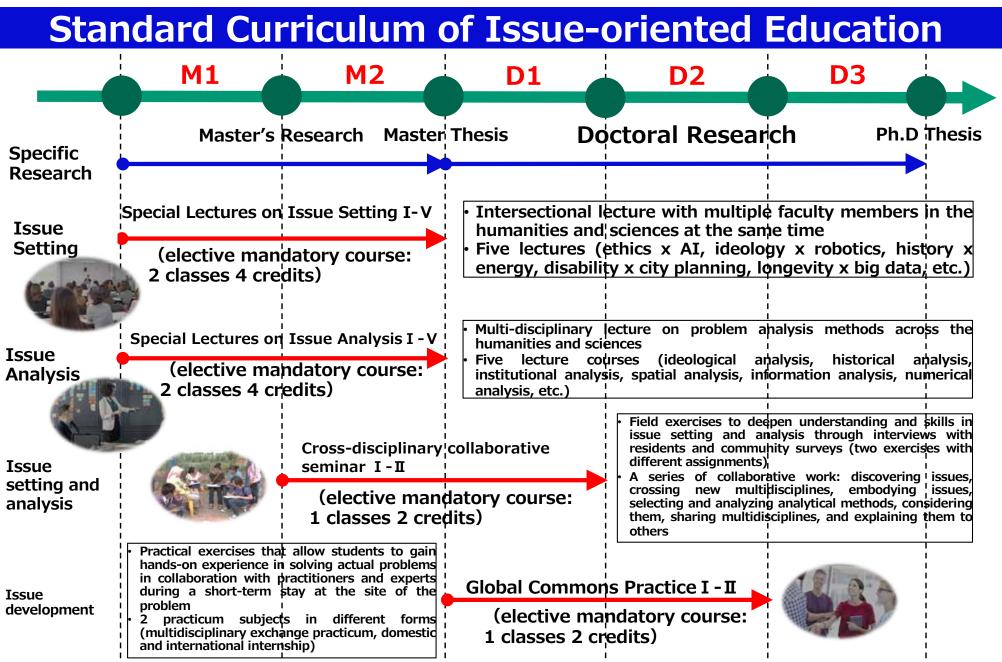
#### Issue-oriented education to nurture human resources for the synergistic co-design of arts and science

- The social imagination requires field experience.
- Self-relativization is necessary for the ability to understand others.
- Public empathy requires an intrinsic motivation.

Traditional graduate education has not provided the opportunity to face real-life issues head-on, and has failed to instill social imagination, understanding of others, and public empathy.

Issue-oriented education through synergistic work in the arts and science

Cross-disciplinar synergistic work		Identify what needs to be done to realize the vision for the future and present it as a clear issue.	
	Issue analysis	Choosing an appropriate analytical method to determine the nature of the issue and reveal the background mechanism.	
	Developing the issue	Conceptualize the process that leads to the solution of the issue, and link it to the next policy development and social implementation.	



- 12 or more credits from lectures, exercises, and practical training courses are systematically taken.
- Interactive sessions (about once a month) for mutual discussions between a diverse group of outstanding students and faculties.

# **Completion Requirements**

**D1** 

School

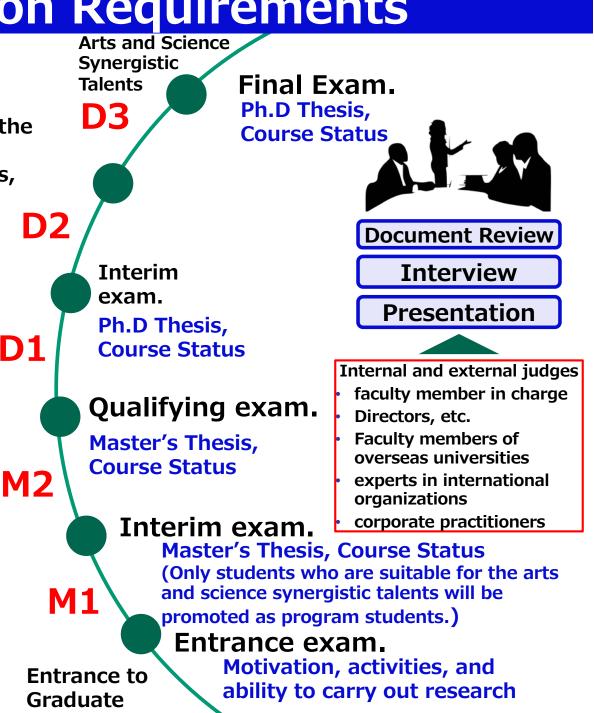




- Meet the completion requirements of the major.
- A minimum of 12 credits from lectures, exercises, and practical courses are systematically taken.
- Has the major and minor, and is supervised by a major and minor supervisors.
- Pass the mid-term, QE, and final examinations.

### **Evaluation Points**

- Are students learning in a issueoriented and synergistic manner through lectures, exercises, and practical training?
- Does he or she incorporate discipline that is not in his or her area of expertise?
- Is the review of the past and the vision for the future described in the research paper in a synergistic manner?
- Have they had experiences that lead to their social imagination?



# **Collaboration with external organizations**

Collaboration with Top Universities	Collaboration with International Organizations	Collaboration with global enterprizes	)
<ul> <li>Australian National University</li> <li>National University of Singapore</li> <li>Vietnam National University,</li> <li>University</li> </ul>		<ul> <li>multidisciplinary exchange training that develops manufacturing and policy discussions to solve issues</li> <li>Joint implementation of domestic and international internships to learn methodologies for solving issues in industry</li> <li>Deeper communication between students and business people through recurrent education, etc</li> </ul>	
Padjadjaran University     University	rsity of Sao Paulo		6