

Category (科目区分)	Cluster of Biofunctional Systems		
Course Title (授業科目名)	Cardiology, practical training		
Instructors (担当者名)	Hiroyuki Watanabe	Academic Year (配当年次)	1
Required Course / Elective Course (必修/選択)	Elective Course	Credits (単位数)	1
Class Format (授業形態)	Lecture		
Schedule (開講期間)	October 2025 – March 2026		
Class Date/Period (開講曜日・時間)	The day of the class will be announced to students by e-mail after the course registration is completed. Class hours: 18:00 – 21:00		
Course Outline/ Course Objectives (授業の概要・到達目標)			
Objective: To understand the pathogenesis of cardiovascular diseases and to learn the knowledge and skills necessary for cardiovascular research. Objectives of the course: To develop a deeper understanding and insight into cardiovascular diseases by conducting basic and clinical research, and to acquire a high level of leadership in cardiovascular medicine.			
Course Planning (授業計画)			
	Course Outline/ Course Objectives (授業の概要及び到達目標) (Contents of Class) (授業内容)	Instructor (担当教員名)	Department (講座名) Class Room [実施場所]
1	Fundamentals of Cardiovascular Disease	Professor Hiroyuki Watanabe	Cardiovascular Medicine [5S Conference Room]
2	Cardiovascular Disease Diagnosis and Evaluation	Lecturer Ken Terata	
3	Pathophysiology and mechanism of heart failure	Professor Hiroyuki Watanabe	
4	Approaches to arrhythmia and sudden cardiac death	Professor Hiroyuki Watanabe	
5	Coronary artery disease	Lecturer Ken Terata	
6	Hypertension	Lecturer Ken Terata	
7	Valvular heart disease	Professor Hiroyuki Watanabe	
8	Cardiomyopathy	Lecturer Ken Terata	
9	Risk of cardiovascular disease	Lecturer Ken Terata	
10	Cardiovascular signaling network	Professor Hiroyuki Watanabe	
Grading Criteria (成績評価の基準と方法)			
In this course, students will be required to complete a total of 30 hours of lecture and 15 hours of self-study, for a total of 45 hours. Evaluation will be based on attendance, results of oral and written examinations, and submitted reports.			
Contact Information (問い合わせ先(氏名, メールアドレス等))			
Name: Hiroyuki Watanabe / E-mail : hirow@doc.med.akita-u.ac.jp Name: Ken Terata / E-mail : kterata@med.akita-u.ac.jp			
Comment (その他特記事項)			
Information about the course: For working graduate students who cannot attend the practical training due to work, we will adjust the schedule. Textbook/Reference: Braunwald's Heart Disease, JCS Guideline, and other literature in specialized fields. Content of study during self-study time: It is desirable to do preparatory study according to the achievement goal and class content.			