

専攻名	理学系研究科天文学専攻
科目番号	35604-1010
科目名	観測天文学特別講義X

* 大学院科目は、各項目について和文に続けて英文も入力してください。
 なお、英文のみ入力していただいても結構です。

講義題目 (Course Title)	Introduction to Infrared Astronomy
授業の目標・概要 ※必須 (Course Objectives/Overview)	<p>The lectures will cover the following topics relevant to infrared astronomy at 1–1,000 micrometers, including:</p> <ul style="list-style-type: none"> (1) the atmospheric transmission (2) background emission from ground-based observatories (3) background emission from space (4) detectors used in infrared astronomy (5) optimizing the signal-to-noise ratio (6) fundamental detection limits (7) infrared standards and absolute calibration (8) interstellar extinction (9) infrared spectroscopy (10) emerging technologies for detectors and spectrographs
授業のキーワード (Keywords)	日本語
	英語 infrared, astronomy, photometry, spectroscopy
授業計画 (Schedule)	Intensive course: October 25, 26, 27
授業の方法 ※必須 (Teaching Methods)	I will be presenting lectures using power point slides with notes and I plan to make it available to the students in case they have some trouble with understanding the lecture in english.
成績評価方法 ※必須 (Method of Evaluation)	Active participation in class and completion of a problem set.
教科書 (Required Textbook)	https://dl.dropboxusercontent.com/u/12111886/Infrared Astronomy Fundamenta
参考書 (Reference Books)	https://dl.dropboxusercontent.com/u/12111886/Astrophysical Quantities chap7.p
履修上の注意 (Notes on Taking the Course)	Focus of the course is on infrared astronomy observations.
関連ホームページ (Course-Related Websites)	Supplementary information to be provided with selected websites.
その他 (Others)	
メールアドレス (E-mail Address)	tokunaga@ifa.hawaii.edu
研究室電話番号 (Laboratory room phone no.)	
授業使用言語 ※必須	English