

an organization. Concepts are explored with hands-on exercises using desktop databases and spread sheets along with an introduction to visual programming. Further, students are exposed to a systems view of information through team-based projects. Each student is assigned a leadership position. The technologies include Microsoft Access, Excel, Visual Basic .Net, and open source alternatives. Laboratory. Prerequisite: IS 141 and IS171, BUS 160 or permission of instructor.

333 Network Administration (3). S. This course prepares students to set up and administer TCP/IP, Linux, and/or Microsoft networks. Topics include network protocols such as TCP/IP; networking hardware including wiring, interface, hubs, switches and routers; proxies; security and firewalls; social, legal and ethical issues. Prerequisite: 271 or Computer Science 108.

337 Introduction to Website Administration (3). F This course prepares the student to administer a site on the World Wide Web. Topics include platform options; server installation and configuration; creating web documents; an introduction to web scripting; legal and ethical issues. Prerequisite: Computer Science 108, or permission of the instructor.

341 Database Administration (3). F This course prepares students to set up and administer database servers and clients on a network. Topics include an introduction to database design; SQL programming; principles for interfacing with a database server using ODBC and Visual Basic; issues in data management, integrity and security; legal and ethical issues. Prerequisite: 141, 271 or permission of the instructor.

371 Information Systems Leadership (3). S, odd years. This course explores the role of the Chief Information Officer and the key Christian leadership issues within a technical environment. It emphasizes aligning IT to provide optimal value to organizational missions. It explores the economic considerations of IT management, including project budgeting, outsourcing analysis, financial ratios applied to technical investments and establishing service level agreements. The course will address these issues in the context of a significant, full-class project. Prerequisite: CS 262 or permission of the instructor. Not offered 2007-2008.

Dutch

Professor H. Aay (Frederik Meijer Chair of Dutch Language and Culture)

Associate Professor H. De Vries (chair, Queen Juliana Chair of the Language and Culture of the Netherlands)

Programs for students wishing to minor or major in Dutch are worked out for them individually by the department advisor. Semester programs, approved or endorsed by Calvin, are available to student in the cities of Leiden and Zwolle.

The cross cultural engagement requirement is met by the Dutch Interim Abroad (W 40).

DUTCH MAJOR (34 semester hours)

Dutch 101

Dutch 102

Dutch 201

Dutch 202

Six 300-level electives, one of which maybe an approved Dutch-language interim in the Netherlands.

Courses taken on semester programs in the Netherlands may apply, provided that students meet with department chair and gain approval for specific courses in advance.

DUTCH MINOR (25 semester hours)

Dutch 101

Dutch 102

Dutch 201

Dutch 202

Two 300-level electives

An independent study or an approved interim in the Netherlands.

Courses taken on semester programs in the Netherlands may apply, provided that students meet with department chair and gain approval for specific courses in advance.

NETHERLANDIC STUDIES MAJOR (33 semester hours)

Dutch 101

Dutch 102

Dutch 201

Dutch 202

Three 300-level Dutch courses, one of which may be an approved Dutch-language interim in the Netherlands.

Two courses from Art History 234, and then (optionally) Art History 237, an approved European History Course, an approved Religion course, Geography/Engineering and Dutch Landscapes Interim.

Courses taken on semester programs in the Netherlands may apply, provided that students meet with department chair and gain approval for specific courses in advance.

Prerequisite to a concentration in Dutch is a minimum average of "C" (2.0) in Dutch 101, Dutch 102, Dutch 201, and Dutch 202. Completion of Dutch 202 meets the foreign language requirement.

COURSES

101 **Elementary Dutch I** (4). F. An introductory course in the comprehension and use of spoken and written Dutch and an exposure to the people and culture of the Netherlands and Flanders, Belgium.

102 **Elementary Dutch II** (4). S. A continuation of Dutch 101.

201 **Intermediate Dutch I** (4). F. Further development of skills in speaking, listening, reading, and writing Dutch. Includes systematic grammar review and the introduction to finer points of grammar and idiomatic use of the language. Cultural topics are explored through film and short literary texts. Prerequisite: Dutch 102 or permission of the instructor.

202 **Intermediate Dutch II** (4). S. A continuation of Dutch 201. Further development of skills in speaking, listening, reading, and writing Dutch. Ongoing mastery of grammar and idiomatic use of the language. Cultural topics are explored through film and short literary texts.

305 **Dutch Literature I** (3). F. Study and discussion of several Dutch literary texts representative of the classical and modern periods of Dutch literature. Offered based on demand. See departmental chair.

306 **Dutch Literature II** (3). S. A continuation of Dutch 305.

309 **Netherlandic Civilization** (3). A study conducted in the English language of several important aspects of Netherlandic civilization: Literature, history, religion, art, architecture, social structure, and education. Offered based on demand. See departmental chair.

390 **Independent Study**. Prerequisite: Approval of department chair. *Staff*.