VIVES BUSINESS ACADEMY

Commercial Sciences, Business Management & Applied Informatics

Design your future

Campus Kortrijk

Applied Informatics

vives university college
KU Leuven association

Table of Contents

1   The VIVES University College

The VIVES University College is a merger that consists of six campuses situated in Brugge, Kortrijk, Oostende, Roeselare, Tielt and Torhout, and provides a whole range of professionally oriented study programmes at the level of bachelor.
These six places are medium-sized cities in Flanders, the Dutch-speaking region in Belgium.

At this moment, mergers in the field of higher education are a common trend in Flanders. With approximately 13.000 students, VIVES is the biggest university college in Flanders.
The **Faculty of Commercial Sciences, Business Management & Informatics** is located on the VIVES Bruges and Kortrijk Campuses.

2 For incoming students

Teaching language
English

Assessment
Individual and group assessment according to the ECTS grading scale.

Level
- Professional bachelor programme for undergraduate students who have already acquired at least 60 ECTS credits at their home university.
- Language: students have an upper-intermediate level of spoken and written English. The minimum requirement is **Level B2** in the Common European Framework of Reference. You may be invited for a skype interview in English.

Workload
International students staying for one semester are advised to select courses or modules equivalent to 30 ECTS credits, for two semesters a minimum of 60 ECTS credits.
1 ECTS credit equals a **workload of 25 to 30 hours**.
A laptop is required.

Application
In case you are interested to come and study in VIVES and you want to apply please contact us on: **evy.vansieleghem@vives.be** and we will inform you what to do.

Deadlines:
- **End of May (autumn semester)**
- **Mid of November (spring semester)**
- No tuition fees for students of partner universities of VIVES University College; others pay 1500 EUR.
- Signed application form (see ECTS documents for incoming students on www.vives.be)
- CV and letter of motivation
- Learning agreement
- Certificate of registration at your home university

More information

Most updated information on our website: https://www.vives.be/international/incoming-students

Programme coordinator   **Johan Cottyn**
                                   johan.cottyn@vives.be
                                   +32 477 49 23 06

3 VIVES Business Academy, Applied Informatics

Introduction

"The VIVES Business Academy" is geared at the characteristics of our entrepreneurs: hard-working and flexible, innovative and disciplined, multilingual and with a sound interpretation of "Think global, act local".

Flanders...

Although Flanders has no natural resources, it is still one of the richest regions in the World. This has been achieved through our human "capital": hard working people, high level of education, openness towards the world and innovative entrepreneurs.

"The VIVES Business Academy" intends to share with the students, the experiences and views that have been the driving forces for the high standard of living in this part of the world.
Specifically, the modules have the following goals:
- to develop your personal skills,
- to increase your understanding of modern management approaches (theory and practice),
- to offer you an opportunity to learn about Flanders, Belgium and Europe,
- to make you aware of changes in the global environment.

The ultimate goal of our programme is to increase the knowledge and competences of our students as a contribution to their personal growth and their career development.

4   Welcome to the Department of Commercial Sciences, Business Management & Informatics.

Johan de Langhe
Head of the faculty of Commercial Sciences, Business Management and Informatics

Dear International Students,

We are glad you've chosen to stay with us to study at VIVES-Kortrijk for a couple of months.

The Department of Commercial Sciences, Business Management & Informatics has a lot of facilities you can find in this guide to make your study pleasant.

This guide offers you all the practical information you need about the VIVES Business Academy. You find all the details about our courses and project works on the following pages.

Campus Kortrijk

Commercial Sciences, Business Management and Informatics Department

Campus Bruges

Commercial Sciences, Business Management & Informatics Department

5   More About Campus Kortrijk

5.1   The International Office

For all your questions and problems, you can come to office 50.13, where the International Office is situated. The Head is Mr. Johan Cottyn. If you need help, please make an appointment with Mr. Cottyn. You can send an e-mail to johan.cottyn@vives.be. In case of emergency, don't hesitate to contact Mr. Cottyn on his mobile phone: +32 477 49 23 06.

Working in close collaboration is Ms. Anna Szermuszyn. If you need help, please make an appointment with Ms Szermuszyn. You can send an e-mail to anna.szermuszyn@vives.be. In case of emergency, don't hesitate to contact Ms Szermuszyn on her mobile phone: + 32 485 98 51 11. Also, you can always ask for help our trainee, (former Erasmus student in VIVES): Bianca Cricler: cricler_bianca_melania@yahoo.com

The Central International Office (main building "'t Forum") will give you practical information about your accommodation, administration, the city of Kortrijk.

5.2   cvo MIRAS

The Department of Commercial Sciences, Business Management & Informatics (VIVES-CSBM&I) works together with cvo MIRAS. cvo MIRAS takes care of all the language courses you can attend during your stay at CSBM&I.
The contact person for cvo MIRAS is Hermine Schouteten. Her e-mail address is hermine.schouteten@gmail.com.

You can register for the language courses with Hermine Schouteten.

5.3   MERCURIUS (Student Club)

If you would like to join the students activities, please go on the website of the club: http://www.mercurius-kortrijk.be or you can follow their facebook page: www.mercurius-kortrijk.be.There you can find the activities and the contact persons.

6 Courses in CAMPUS KORTRIJK
Introduction

The courses in Applied Informatics belong to the Department of Commercial Sciences, Business Management & Informatics.

The courses will use English course material. As the number of the students per course can be limited, most courses will be offered as individual tutoring or project work (individually or team work). Students will study the course material and solve a series of exercises or do a project. Students will have regular meetings with their lecturer to ask questions or monitor their progress. In some cases the evaluation will also imply an exam.

Student should bring their personal laptop computer to do most of the courses.

Almost none of the courses in applied informatics are introductory courses. This means that the student should already master the basics of object oriented computer programming and in most cases of relational databases (database concepts, SQL). For some courses knowledge of web design (html, css) is also required.

Students can also do a project in software development of IT infrastructure (security, server management, computer networking) which can amount to up to 20 ECTS credits depending on the volume of the project. The topic of this product should be discussed upon arrival with the coordinator of applied informatics to check the foreknowledge and the preferences of the students in order to find a suitable project. If feasible a project can be organised in cooperation with a company or non-profit organisation.

Courses take place in different buildings on the campus.
For practical problem students can contact the international office of the department. Students should discuss their course program of final project with the head of applied informatics.

Head of the International Office: Johan Cottyn (johan.cottyn@vives.be), +32 477 49 23 06, room 50.13 in the building HANTAL (Handelswetenschappen en Bedrijfskunde).

Head of Applied Informatics: Arne Vandenbussche (arne.vandenbussche@vives.be),
+32 496 35 48 17, room 112 in the building VHTI (Technology en Informatica).

Below you will find the full list of courses we offer at our department, before you create your learning agreement please make sure you read the full description of the courses and that you meet all the entry requirements.

6.1 Applied Informatics Courses

Course name	ECTS	Autumn semester	Spring semester
Web Design	6	x	x
Introduction to Linux	4	x	x
Databases and SQL	4	x	x
Web Development in .NET	8	x	x
Web Development in Java	6	c	x
Desktop Development in .NET	6	x	x

Course name	ECTS	Autumn semester	Spring semester
Mobile App Development - Hybrid	6	x	x
Android App Development	6	x	x
Mobile App Development - iOS	6	x	x
IT Security	4	x	x
Small IT Project	8	x	x
Final Project	20	x	x

6.2   Language Courses

Course name	ECTS	Autumn semester	Spring semester
Dutch as a foreign language*	6	x	x
Spanish 1/Breakthrough	3	x	x
Spanish (levels 2 to 8)	3	x	x
Business English 1/Intermediate (B1)	3	x	x
Business English 2/Upper-intermediate (B2)	3	x	x
Business English 3/Advanced (C1)	3	x	x
German (levels 1 to 4)	3	x	x
French (levels 1 to 8)	3	x	x
Italian (levels 1 to 8)	3	x	x
English 5/Threshold 3	3	x	x
English 6/Threshold4	3	x	x
English 7/Vantage	3	x	x
English 8/Effectiveness	3	x	x
Native languages assistant English	3	x	x
Native languages assistant French	3	x	x
Native languages assistant Spanish	3		x
Native languages assistant German	3	x	x

* Dutch as a foreign language is available only for students who will study here for the whole academic year

7 Description of the courses

Course title	7.1 Web Design
Semester	Autumn & Spring
ECTS credits	6
Lecturer	Yanic Inghelbrecht yanic.inghelbrecht@vives.be
Course contents	Basic concepts of html and css.
Course objectives	To be able to build a static website in html and css.
Entry requirements	None.
Teaching method	Self-study, individual tutoring, project work.
Assessment	Evaluation of the exercises. Building a final website.
Course material	

Course title	7.2 Introduction to Linux
Semester	Autumn & Spring
ECTS credits	4
Lecturer	Marc Desplenter marc.desplenter@vives.be
Course contents	- Logging in and out, using the shell. - Using the editor. - Unix files and the file system. - Access right for files and folders. - Working with file contents, regular expressions and sorting. - Sharing files, using links. - Redirection, pipes and standard files. - Processes. - Scripting.
Course objectives	To be able to use the unix commands and basic unix scripting
Entry requirements	Master the fundamentals of computer programming.
Teaching method	Self-study, individual tutoring.
Assessment	Written exam.
Course material	Textbook: "Unix: The textbook" second edition, Sarware & Koretsky.

Course title	7.3 Databases and SQL
Semester	Autumn & Spring
ECTS credits	4
Lecturer	Marc Desplenter marc.desplenter@vives.be
Course contents	- Basic concepts of a relational database. - Design a simple relational database. - Retrieve data from a SQL database. - Single row functions in SQL - Group functions - Subqueries. - Data Definition Language - Data Manipulation Language. - Views

	• Authorization.
Course objectives	To be able to query and manipulate data of a relational database using the SQL language.
Entry requirements	None.
Teaching method	Self-study, individual tutoring.
Assessment	Written exam
Course material	

Course title	**7.4 Web Development in .NET**
Semester	Autumn & Spring
ECTS credits	8
Lecturer	Christophe De Waele christophe.dewaele@vives.be
Course contents	• ASP.NET Web Forms • Standardizing design with templates and themes. • Server Controls. • Web Part and AJAX. • XAML. • Using a database (LINQ Entity Framework). • Exception handling, debugging. • Status. • Security. • Web Services • MVC (controllers, views, models, form and HTML helpers) • Data annotations and validation. • Routing
Course objectives	To be able to build an e-commerce site using ASP.NET MVC
Entry requirements	Knowledge of object oriented programing, of html and CSS, of Javascript and of relational database and SQL.
Teaching method	Self-study, individual tutoring, project work.
Assessment	Results of the project work will be assessed permanently.
Course material	Pro ASP.NET 4.5 C# , By Adam Freeman, Apress.

Course title	**7.5 Web Development in Java**
Semester	Autumn & Spring
ECTS credits	6
Lecturer	Kasper Cools kasper.cools@vives.be
Course contents	• Model-View-Controller paradigm • JSP & Servlets • Web Services • Front End Frameworks
Course objectives	To be able to develop a stable web application in Java
Entry requirements	Mastering html, css, Java programming, relational databases and SQL
Teaching method	Self-study, individual tutoring, project work.
Assessment	Project work.
Course material	Textbook: "Head First Servleets & JSP" second edition by Bryan Basham, Kathy Sierra and Bert Bates. O' Reilly Media 2008.

Course title	7.6 Desktop Development in .NET
Semester	Autumn & Spring
ECTS credits	6
Lecturer	Bavo Ketels bavo.ketels@vives.be
Course contents	• Winforms • WPF • Windows Presentation Foundation • XAML • LINQ • Exception handling, debugging. • Security • MVVM en binding • Multi-layer model.
Course objectives	To be able to develop a desktop application in .NET.
Entry requirements	Fundamentals of OO Programming – relational databases and SQL.
Teaching method	Self-study, individual tutoring, project work.
Assessment	Project work.
Course material	Textbook: "WPF 4.5 Unleashed – Adam Nathan ".

Course title	7.7 Mobile App Development - Hybrid
Semester	Autumn & Spring
ECTS credits	6
Lecturer	Christophe De Waele christophe.dewaele@vives.be
Course contents	Students learn to develop an app for a smartphone using html, CSS3, Jquery Mobile of Ionic. The app is deployed to different platforms using Cordova.
Course objectives	To be able to develop a mobile app using web technologies.
Entry requirements	Knowledge of hmtl, CSS3, basics of programming.
Teaching method	Self-study, individual tutoring, project work.
Assessment	Project work.
Course material	Apache Cordova API, John W Wargo.

Course title	7.8 Android App Development
Semester	Autumn & Spring
ECTS credits	6
Lecturer	Dirk Hostens dirk.hostens@vives.be
Course contents	The students learn to develop an Android app using Java: activities, intents, graphical user interface, using local data, using remote data, navigation, fragments.
Course objectives	Be able to develop an native Android App.
Entry requirements	Concepts of object oriented programming. SQL.
Teaching method	Self-study, individual tutoring, project work.
Assessment	Project work.
Course material	Textbook: Beginning Android 4 Application Development – Wei-Meng Lee.

Course title	7.9 Mobile App Development - iOS
Semester	Autumn & Spring
ECTS credits	6
Lecturer	Dirk Hostens dirk.hostens@vives.be
Course contents	Developing apps for iOS 8, using the Swift programming language and the XCode IDE. UI development using UIText, UILabel, UIImageView, UISlider, UIStepper, … are used.
Course objectives	To be able to develop an app for iPhone or iPad.
Entry requirements	Concepts of object oriented programming. SQL.
Teaching method	Self-study, individual tutoring, project work.
Assessment	Project work.
Course material	

Course title	7.10 IT Security
Semester	Autumn & Spring
ECTS credits	4
Lecturer	Peter Debeuckelaere peter.debeuckelaere@vives.be
Course contents	The student will do basic research about a current topic concerning IT – security and write a paper about it, in English.
Course objectives	To have insight in recent technologies for IT Security.
Entry requirements	None.
Teaching method	Self-study (research) with coaching by the lecturer.
Assessment	Paper.
Course material	

Course title	7.11 Small IT Project
Semester	Autumn & Spring
ECTS credits	8
Lecturer	Responsable lecturer: Arne Vandenbussche arne.vandenbussche@vives.be Coaching lecturer will depend on the project.
Course contents	The students will do a project in a mixed team with Belgian students for a real client. They will plan their work, communicate with the client, analyse the problem, develop a solution and test this thoroughly. The workload is about one and a half days a week. The project can be in the domain of software development, business IT solutions, IT Infrastructure, … depending on the field of interest of the student and the available projects. It is possible that student have to learn new technologies to do their project.
Course objectives	Be able to work out an IT Solution for a real client. Manage projects in a sound way.
Entry requirements	Fundamentals of programming – Fundamentals of Windows Server Management.
Teaching method	Project work

Assessment	Project work
Course material	Textbook: "Head First Software Development".

Course title	7.12 Final Project
Semester	Autumn & Spring
ECTS credits	20
Lecturer	Responsable lecturer: Arne Vandenbussche arne.vandenbussche@vives.be Coaching lecturer will depend on the project.
Course contents	The students will do a project, alone or in a small team, for a real client. They will plan their project, communicate with their client, analyze the problem, develop a solution and implement the solution. They will document their project in detail writing a paper about the project and its results. The project can be in the domain of software development (web development, desktop development, mobile app development) , business IT solutions (Sharepoint, Business Intelligence, …), IT Infrastructure (Security, Server Management, Virtualisation, Cloud Computing), … depending on the field of interest of the student and the available projects. It is possible that student have to learn new technologies to finish their project successfully.
Course objectives	Be able to work out an IT Solution for a real client. Manage projects in a sound way. Report in English.
Entry requirements	Good knowledge of software development or IT Infrastructure.
Teaching method	Project work.
Assessment	Project management, project results and reporting will be assessed.
Course material	

Course title	7.13 Dutch as a foreign language
Semester	Autumn & Spring
ECTS credits	6 (one year)
Lecturer	Teachers from cvo MIRAS Responsible person: Hermine Schouteten hermine.schouteten@gmail.com
Type of course unit	Dutch can be taken at all levels, from elementary level up to specialised level.
Course contents	To improve your language level
Course objectives	You have to do a level test before you start to attend the course. According to the result of the test, they will put you in a level.
Entry requirements	-
Teaching method	Written and continuous assessment about oral skills
Assessment	Course +hand outs
Course material	

Course title	7.14 Language Courses: French, German, Spanish, Italian
Semester	Autumn & Spring
ECTS credits	3
Lecturer	Teachers from cvo MIRAS Responsible person: Hermine Schouteten hermine.schouteten@gmail.com
Type of course unit	Languages can be taken at all levels, from elementary level up to specialised level (for General English – the offer is limited). The evening schools offers French, German, Spanish, Italian.
Course contents	To improve your language level
Course objectives	You have to do a level test before you start to attend the course. According to the result of the test, they will put you in a level.
Entry requirements	Classes for Erasmus only
Teaching method	Written and continuous assessment about oral skills
Assessment	Course +hand outs
Course material	

Course title	7.15 Assistant de langue française
Semester	Automne & Printemps
ECTS credits	3
Professeurs	• Lannoo Dominique (responsable) dominique.lannoo@vives.be • Coghe Frederik • De Baets Frederik • Derolez Bart • De Winter Kathleen • Goudeseune Annelies • Coene Carine • Vanhee Guido • Verplancke Jan • Verrotte Caroline • Willemot Evelyne
Contenu du cours	Les étudiants participent à au moins 23 cours de français pour converser avec les étudiants flamands. Les activités sont multiples: jeux de rôles, débats, interviews, conversations téléphoniques, … Les étudiants font également quelques tâches par écrit, liées aux cours de conversation. Vu qu'ils assistent aux cours de différents professeurs, il est nécessaire de bien planifier les cours.
Objectifs du cours	Echanges culturelle et linguistique
Condition préalable	Avoir le français comme langue maternelle
Méthode d'apprentissage	Apprentissage coopératif
Evaluation	D'une part les étudiants seront évalués sur base de leur participation aux cours; ils sont censés aider et encourager les étudiants flamands à parler le français. D'autre part, ils seront évalués sur base des tâches écrites.
Matériaux de cours	Copies

Course title	7.16 Native Language Assistant: Spanish
Semester	Primavera
ECTS credits	3
Profesores	- De Baets Frederik (responsable) frederik.debaets@vives.be - Coene Carine - Coghe Frederik - De Winter Kathleen - Van Iseghem Delphine
Contenido del curso	Los estudiantes participan a al menos 15 clases de lengua española para conversar con los estudiantes flamencos. Las actividades son múltiples: juegos de roles, debates, entrevistas, simulaciones de conversaciones telefónicas, etc. Los estudiantes tendrán que hacer también algunas tareas por escrito, en relación con las clases de conversación. Como asisten a clases de diferentes profesores (a horas distintas), será necesario planificar bien las clases.
Objetivos del curso	Intercambio cultural y lingüístico
Condiciones previas	Tener el español como lengua materna
Método de aprendizaje	Aprendizaje cooperativo
Evaluación	Por una parte, la evaluación de los estudiantes se basa en su participación en las clases. Deben ayudar y estimular a los estudiantes flamencos a hablar español. Por otra parte, se evaluarán también las tareas escritas.
Materiales del curso	Fotocopias

Course title	7.17 Native Language Assistant: German
Semester	Wintersemester & Sommersemester
ECTS credits	3
Dozenten	- Larmuseau Stijn stijn.larmuseau@vives.be - Maes Ils - Wastyn Ria
Kursinhalt	Die Studenten nehmen an mindestens 15 Terminen teil und reden mit den belgischen Studenten im Unterricht. Es gibt verschiedene Aktivitäten: Rollenspiele, Debatten, Interviews, Simulationen von Telefongesprächen, usw. Die Studenten sollen auch einige schriftliche Aufgaben machen, die mit den Sprechübungen zu tun haben. Weil die Studenten an mehreren Terminen bei verschiedenen Dozenten teilnehmen (zu unterschiedlichen Uhrzeiten), ist es notwendig, die Termine gut zu planen.
Kursziele	Soziokultureller und linguistischer Austausch
Voraussetzungen	Muttersprache: Deutsch
Lernmethode	Partnerschaftliches Lernen
Bewertung	Einerseits wird die aktive Teilnahme am Seminar bewertet. Die deutschen Studenten sollen den belgischen Studenten helfen und sie motivieren, Deutsch zu sprechen. Andererseits werden auch die schriftlichen Aufgaben bewertet.
Kursunterlagen	Arbeitsblätter

Course title	7.18 Native Language Assistant: English
Semester	Autumn & Spring
ECTS credits	3
Lecturers	**Lynn Tanghe** lynn.tanghe@vives.be An Ostyn, Leen Baelde, Kim De Cock, Stijn Larmuseau, Leen Dufraimont, Sylvie Vanrenterghem, Bart Lesage, Pieter van Haute, Thomas Claesen, Piet Verbeke
Course contents	The students participate in at least 15 hours of English classes during which they engage in conversations with the Flemish students. They will be involved in various kinds of activities such as roleplay, discussions, interviews, phone conversations, etc. The students will also have some written assignments, related to the speaking exercises. As the students will be assisting in different classes with several colleagues, careful planning of these sessions is essential.
Course objectives	Cultural and linguistic exchange
Entry requirements	English as mother tongue
Teaching method	Cooperative learning
Assessment	The grade the students receive will be based partly on their active participation in class. They are expected to help the Flemish students and encourage them to speak English. Apart from this, also the written assignments will be taken into account.
Course material	Photocopies

8   Course codes

Course name	Code Autumn	Code Spring	Credits
Android App Development	V3560B	V3527C	6
Business English 1 / Intermediate (B1)	V3516B	V3579B	3
Business English 2 / Upper-intermediate (B2)	V3517B	V3580B	3
Business English 3 / Advanced (C1)	V3518B	V3581B	3
Databases and SQL	V3554B	V3522C	4
Desktop Development in .NET	V3558B	V3525C	6
Dutch as a foreign language	V3502B		6
Dutch as a foreign language: oral		V3536C	3
Dutch as a foreign language: written		V3537C	3
English 5 / Treshold 3	V3522B	V3585B	3
English 6 / Treshold 4	V3523B	V3586B	3
English 7 / Vantage	V3524B	V3587B	3
English 8 / Effectiveness	V3525B	V3588B	3
Final Project	V3564B	V3531C	20
French (levels 1 tot 8)	V3520B	V3583B	3
German (levels 1 to 4)	V3519B	V3582B	3
Introduction to Linux	V3555B	V3521C	4
IT Security	V3562B	V3529C	4
Italian (levels 1 to 8)	V3521B	V3584B	3
Mobile App Development - Hybrid	V3559B	V3526C	6
Mobile App Development - iOS	V3561B	V3528C	6
Native languages assistant English	V3526B	V3589B	3
Native languages assistant French	V3527B	V3590B	3
Native languages assistant German	V3529B	V3592B	3
Native languages assistant Spanish	V3528B	V3591B	3
Small IT Project	V3563B	V3530C	8
Spanish (levels 2 to 8)	V3515B	V3578B	3
Spanish 1 / Breakthrough	V3514B	V3577B	3
Web Design	V3553B	V3520C	6
Web Development in .NET	V3556B	V3523C	8
Web Development in Java	V3557B	V3524C	6