International Education Guide

FOR THE ASSESSMENT OF EDUCATION FROM THE REPUBLIC OF COLOMBIA
Welcome to the Alberta Government’s International Education Guides

The International Qualifications Assessment Service (IQAS) developed the International Education Guides for educational institutions, employers and professional licensing bodies to help facilitate and streamline their decisions regarding the recognition of international credentials.

These guides compare educational systems from around the world to educational standards in Canada. The assessment recommendations contained in the guides are based on extensive research and well documented standards and criteria. This research project, a first in Canada, is based on a broad range of international resources and considerable expertise within the IQAS program.

Organizations can use these guides to make accurate and efficient decisions regarding the recognition of international credentials. The International Education Guides serve as a resource comparing Alberta standards with those of other countries, and will assist all those who need to make informed decisions, including:

- employers who need to know whether an applicant with international credentials meets the educational requirements for a job, and how to obtain information comparing the applicant’s credentials to educational standards in Alberta and Canada
- educational institutions that need to make a decision about whether a prospective student meets the education requirements for admission, and who need to find accurate and reliable information about the educational system of another country
- professional licensing bodies that need to know whether an applicant meets the educational standards for licensing bodies

The guides include a country overview, a historical educational overview, and descriptions of school education, higher education, professional/technical/vocational education, teacher education, grading scales, documentation for educational credentials and a bibliography.

The guides also include placement recommendations for comparison and application in Alberta, Canada.

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Country Overview

Land

The Republic of Colombia (República de Colombia), named in honour of Christopher Columbus, is located in the northwest corner of the South American continent. With an area of 1,141,748 square kilometres, it is currently the fourth largest Latin American nation in territory. Colombia borders Venezuela and Brazil to the east, Peru and Ecuador to the south, and Panama to the north. It also has access to the Caribbean Sea and the Pacific Ocean and shares maritime boundaries with Jamaica, Haiti, the Dominican Republic, Honduras, Nicaragua and Costa Rica.

At 661,000 square kilometres, Alberta is slightly larger than half the size of Colombia.

Colombia (UTC –5) is two hours ahead of Alberta (UTC –7) during standard time and one hour ahead during daylight time.

People and Culture

Population

According to the 2005 national census, Colombia’s population was 42,888,592; the CIA World Factbook estimates 45,644,023 as of July 2009. This makes Colombia the third most populous Latin American nation, after Brazil and Mexico. The population, however, is distributed unequally throughout the territory. As of 2005, about 73 per cent of Colombians lived in urban centres. Furthermore, the area of the eastern lowlands, which covers just over half (54 per cent) of the country’s total area, is inhabited by less than three per cent of the population and has a population density of less than one person per square kilometre (www.colombiainfo.com). The difficult socio-economic situation and civil unrest in Colombia have also caused many to emigrate abroad.

Ethnicity

The ethnic makeup of present-day Colombia reflects its rich heritage and is primarily a blend of three groups: the indigenous populations, Spaniards and other European immigrants, and the descendants of black slaves brought from Africa during colonial times.
Mestizos (individuals of both indigenous and white ancestry) account for 58 per cent of the total population, those classified as white for 20 per cent, and mulatos (individuals of both African and white ancestry) for 14 per cent. Among other racial minorities are Afrocolombianos, or Colombians of African origin (four per cent), population with both indigenous and African roots (three per cent), and indigenous groups (one per cent).

These numbers, taken from the CIA World Factbook, should be viewed more as estimates than exact percentages since census data in Colombia does not take ethnicity into account. The categories also seem to exclude some immigrant communities that have established themselves in Colombia in the 20th century.

Throughout its history, Colombia has also received several waves of immigrants from Europe (Europeans other than the conquistadores, Jewish people, Romanies), the Middle East (Lebanese, Jordanians, Syrians), and Asia (Chinese, Japanese, Koreans).

**Language**

Colombia’s official language is Spanish (español or castellano), but the dialect can vary greatly in different parts of the country. Indigenous languages of several ethnic groups are constitutionally recognized as official within their territory, and the law makes bilingual education obligatory in regions with a linguistic tradition of their own. Currently, ethnic communities all over Colombia speak more than 60 indigenous and creole languages. Spanish, however, remains the dominant language and is also the only language used throughout all levels of the educational system.

UNESCO reports the literacy rate for adults (15+) in Colombia as 92.8 per cent in 2005, nearly three per cent higher than the regional average.

**Religion**

Until the new constitution was adopted in 1991, Roman Catholicism was officially Colombia’s state religion. Currently, about 90 per cent of Colombians are Catholic and the church is still deeply ingrained in the society. Most major religions and religious movements are also present in the country and account for the remaining population.

**History**

Colombia has a rich past that continues to impact its present in many ways. Like most Latin American countries, Colombia used to be a Spanish colony and emerged as an independent nation after a series of wars in the 19th century. The fact that most Colombians today are of mixed European and indigenous descent, speak Spanish, and profess Roman Catholicism is a direct result of the colonial legacy inherited not only by Colombia, but by most countries in the region.

In recent history, Colombia again faced many issues typical for Latin America, such as political instability, poverty, corruption, human rights abuses and a low standard of living among the majority of its population. At the same time, the country’s heritage also possesses features that are uniquely Colombian and its people have struggled with challenges that are particular to their nation. The following brief summary outlines some of the important events in Colombia’s history.

**Pre-Columbian Period (Prior to the 1500s)**

For centuries before the arrival of the first Europeans on the continent, the territory of present-day Colombia was home to numerous indigenous cultures that were distinct and often highly sophisticated with respect to religion, language and socio-political organization. Toward the end of the pre-Columbian period, the dominant groups were the Chibcha (especially the Muisca and Tairona tribes), the Caribs and the Arawak. In 1492, Christopher Columbus and his crew embarked on their first exploratory voyage from Spain and reached the present-day islands of Cuba and Hispaniola. This event initiated an era of exploration and the eventual colonization of Latin America by Europeans.

**Exploration and Conquest (1500s)**

Around the year 1500, Rodrigo de Bastidas and other Spanish conquistadores set out to explore the Colombian coastline. The colonists gradually moved deeper inland, establishing numerous settlements and founding the current capital, Santa Fé de Bogotá, in 1538.

The local indigenous tribes lacked political unity, a factor that facilitated conquest by the Spaniards. By the middle of the 16th century the lands were officially part of the
Viceroyalty of Peru, which comprised all the South American territories belonging to the Spanish Crown.

**Colonial Period (1600s – 1700s)**

Soon after the conquest, an elaborate system of bureaucracy loyal to the Spanish monarchs and strongly influenced by the Roman Catholic Church was implemented in the colonies. The economy of the New World was based primarily on mining (of gold, silver and other ores and minerals) and agriculture. To provide the necessary labour, the indigenous population was forced to work for the former conquistadores who had now become the landowners. During this period, local populations declined rapidly due to initial armed resistance, the introduction of European diseases and the harsh working conditions they were forced to endure.

To offset the declining supply of indigenous labour, Spanish colonists soon began to import many slaves from Africa. Gradually, racial mixing between Europeans, indigenous peoples and Africans contributed to the rise of new racial groups such as mestizos and mulattos, and eventually led to a profound shift in the ethnic makeup of the colonies. Politically, the influence of the Spanish Crown over the New World continued to decline over the years. In 1717, the Viceroyalty of New Granada (which included present-day Colombia, Venezuela, Ecuador and, later on, Panama) was formed as a new administrative region, with the criollos (the descendants of the European colonialists born in the New World, also referred to as creoles) playing an increasingly important role on the socio-political scene.

**Independence (1800s)**

Prompted by political unrest and dynastic politics in Spain, insurgent movements calling for greater autonomy began to gain strength throughout the Spanish colonies. Most notably, Simón Bolívar emerged as a leading figure in the early 1800s, advocating the complete independence of Latin America. Amid political turmoil, Colombia declared its independence from the Spanish Crown on 20 July 1810. Still, it was not until 7 August 1819 that Bolívar’s troops decisively defeated the Spanish forces and the formation of an independent Greater Colombia (Gran Colombia), which included the same member states as the former Viceroyalty of New Granada, was proclaimed.

Francisco de Paula Santander was another significant person in the Colombian independence movement, and held important political offices in the new republic. In 1830, however, Venezuela and Ecuador seceded from Greater Colombia. The remaining territory of the former federation experienced further transformations and official name changes in subsequent years.

In 1886, the current Republic of Colombia was established, with Panama remaining part of its territory. Overall, the immediate post-independence period was marked by slow recovery from the wars and economic adaptation to capitalism and new international markets. Internal divisions between the opposing conservative and liberal parties continued to grow and often erupted in violence.

**Modern Era (1900s)**

Colombia entered the new century in a state of civil war caused by intense conservative–liberal rivalry. The War of the Thousand Days (1899–1902) ultimately ended with political intervention by the United States and the establishment of Panama as a separate nation in 1903. Another civil war, known as The Violence (La Violencia), and frequently viewed as the starting point for the tensions and violence that still affect Colombia today, followed in 1948. It left behind an estimated 250,000 to 300,000 casualties and ended only when the conservatives and the liberals agreed to form a single party, the National Front (Frente Nacional), in 1958. This development, however, did not erase socio-economic inequalities or solve all political woes.

As a result, in the 1960s and early 1970s, Colombia witnessed the emergence of several leftist guerrilla movements. The largest and most powerful of them to date has been the FARC (Fuerzas Armadas Revolucionarias de Colombia—Colombian Revolutionary Armed Forces). Other left-wing movements include the ELN (Ejército de Liberación Nacional—National Liberation Army), the EPL (Ejército de Liberación Popular—People’s Liberation Army), and the M-19 (Movimiento 19 de Abril—April 19th Movement).

In response to the left-wing insurgents, members of the upper classes, armed forces and government elites supported the formation of illegal and equally violent right-wing paramilitary groups. Formed as late as 1997, the AUC (Autodefensas Unidas de Colombia—United Self-Defense Forces of Colombia) has been the largest right-wing paramilitary group and has served as an umbrella organization for similar regional organizations.
In 1974, the system of multiple parties and free elections was restored, but the political situation was further complicated in the following years by the rise of an illegal drug trade. Powerful drug cartels provided financing to all parties involved in the conflict, including the government, and exerted significant socio-economic influence in the country during the 1980s and 1990s.

**Present Times**

Political instability and lack of economic opportunities, especially in rural areas, have led to internal displacement, increased migration to urban centres and rising poverty levels. Although security has improved under the current government, lasting peace and eradication of the drug trade are two major challenges still facing Colombia.

Official peace talks between the government and insurgent groups go as far back as the end of the 1990s, but both sides have broken off talks numerous times. Progress was made in 2002 when right-wing paramilitary groups agreed to a ceasefire and disarmament; however, the conflict with left-wing insurgents remains unresolved. The drug trade is also far from being eradicated despite significant financial aid from the United States.

**Administration**

**Political Administration**

As the country’s official name states, Colombia is a republic. It adopted its current constitution in 1991 (replacing the original one of 1886) and has amended it numerous times since.

Public powers in Colombia are divided among the executive, legislative and judicial branches of government. The president and his cabinet of ministers head the executive branch. Presidential elections by popular vote take place every four years and the president acts as both chief of state and head of government.

The legislative branch is organized around the principle of a bicameral parliament referred to as the Congress (Congreso). Legislative powers are thus shared between the House of Representatives (Cámara de Representantes), which has 166 members, and the Senate (Senado), which has 102 members. The representatives and the senators are also elected by universal suffrage to serve four-year terms.

The judicial branch consists of four main organizations, each with different functions:

- the Supreme Court of Justice (Corte Suprema de Justicia)
- the Constitutional Court (Corte Constitucional)
- the State Council (Consejo de Estado)
- the Superior Council of the Judiciary (Consejo Superior de la Judicatura)

**National Symbols**

Colombia’s national flag consists of three horizontal bands. The top band is yellow and is twice as wide as the second (blue) and third (red) bands. The yellow band represents (1) the country’s mineral and agricultural resources such as gold and fields of corn and wheat, and (2) the sun that illuminates us all. The blue band symbolizes the oceans, seas and rivers as well as the clear blue sky over the Colombian territory. The red band stands for patriotic ideals and the blood spilled by those who fought for the country’s independence. The flag greatly resembles those of Ecuador and Venezuela since all three have their origin in the flag of the former federation of Greater Colombia.

**Colombia’s Flag and Coat of Arms**

Colombia’s coat of arms similarly refers to the country’s history, ideals and resources. At its centre is a shield divided into three horizontal parts. The topmost section contains a pomegranate, a symbol of the former Viceroyalty of New Granada, flanked by two cornucopias (that is, horns of plenty). The first horn represents Colombia’s mineral resources and is filled with gold coins, while the other overflows with tropical fruit and stands for the fertility and agricultural wealth of Colombian soil. The middle section of the shield depicts a Phrygian cap on a spear, symbols of liberty and the quest for freedom. The lowermost portion of the shield points to Colombia’s maritime history and privileged geographic location. It depicts two ships with open sails, one on either side of the Isthmus of Panama.
The ships symbolize commerce with the rest of the world and a prosperous economy. The national flag is draped on each side of the shield and an Andean condor, with its wings spread out and wearing a crown of laurel leaves, is perched on top of it. The condor is yet another symbol of freedom. In between the bird and the shield is a flowing golden ribbon with an inscription of the national motto: Libertad y Orden (Liberty and Order).

**Territorial Administration**

For administration purposes, Colombia is divided into 32 departments (departamentos) and one capital district (distrito capital). A governor (gobernador) and an Assembly (Asamblea Departamental) head each department. The departments are formed by groups of municipalities (municipios), each administered by a mayor (alcalde) and a municipal council (concejo municipal).

The city of Bogotá is Colombia’s capital and is hence referred to as the capital district. The city also serves as the capital of Cundinamarca. It is common to see the city’s full name, Santa Fé (or Santafé) de Bogotá, used on official documents. Located in the eastern cordillera of the Andes at an elevation of approximately 2,640 metres above sea level, Bogotá’s population reached nearly seven million in 2005. Colombia’s other major cities are Medellín, Cali, Barranquilla and Cartagena.

**Economy**

Colombia is a country with great potential and numerous natural resources. Its currency is the Colombian peso (informally abbreviated as $ or Col$). Throughout the 20th century, its economy has been relatively healthy and stable compared to economies in the rest of the region. In 2005, agriculture accounted for 12.5 per cent of Colombia’s gross domestic product (GDP), industry for 34.2 per cent, and the services sector for 53.3 per cent. The country’s gross national income (GNI) totalled US$104.5 billion, translating to an average annual income of US$2,290 per capita (World Bank Group, 2007).

In 2008, agriculture accounted for 1.8 per cent of Alberta’s GDP (Alberta, 2009).

By comparison, in 2005 the GNI per capita for Canada was US$32,600 (CIDA, 2007).

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**DEPARTMENTS OF COLOMBIA**

1. Amazonas 19. Magdalena
2. Antioquia 20. Meta
4. Atlántico 22. Norte de Santander
5. Bolívar 23. Putumayo
7. Caldas 25. Risaralda
9. Casanare 27. Santander
10. Cauca 28. Sucre
11. Cesar 29. Tolima
12. Chocó 30. Valle del Cauca
13. Córdoba 31. Vaupes
14. Cundinamarca 32. Vichada
16. Guaviare
17. Huila
18. La Guajira

Source: Retrieved 27 August 2007 from Wikipedia.
The main factor preventing Colombia from fully exploiting its economic growth potential has been its fragile political situation. The current administration continues its efforts to reduce the deficit, lower the unemployment rate and foster a more favourable economic environment.

Colombia belongs to several regional economic communities and in 2006 signed a free trade agreement with the United States. Its trade connection with Canada has strengthened over the years as well. For example, in 2005, Canadian exports to Colombia were valued at C$446 million and imports from Colombia at nearly C$583 million, amounting to C$1,029 million in two-way trade between the countries (DFAIT Canada, 2007).

Among the main products Canada imports from Colombia are mineral fuels, spices, coffee and tea, fruit and live trees and plants, as well as iron and steel products. Major Canadian exports to Colombia include vehicles, paper and newsprint, cereals, vegetables and machinery.

Furthermore, Canada has recently reiterated its support for Colombia’s efforts to improve peace and stability. In 2004–05, the Canadian International Development Agency (CIDA) provided nearly C$14 million in official development aid to Colombia, with additional increases to the funding already announced. In particular, Canadian assistance to Colombia targets child protection, education, support for internally displaced people, rehabilitation of landmine victims and professional labour administration.

Colombian Residents in Canada

Since 2001, Colombia has been the number one source country of individuals from the Central and South American region who become permanent residents of Canada. In 2005 alone, over six thousand Colombian nationals became permanent residents of Canada, with the number falling slightly (by about 200) the following year. Apart from permanent residents from Colombia, Canada received over two thousand temporary residents of Colombian origin in 2006, including 404 foreign students, 952 individuals accepted for humanitarian reasons and 1,049 adult (18+) refugee claimants (Citizenship and Immigration Canada, 2007).

**Historical Educational Overview**

Numerous factors determine a nation’s educational system. They include the country’s history, cultural values, dominant religion, socio-political situation, prevalent philosophical movements, economic demands and geographical location. The evolution of Colombia’s education system closely reflects the country’s rich and often turbulent heritage. The complex relationships between the conservative and liberal political forces and the religious and secular influences in Colombian society have played a particularly important role in shaping its educational history. On the whole, the development of Colombia’s education system has been marked by constant reform and an ongoing search for improvement demonstrated by the countless laws and initiatives that have been part of its evolution since colonial times.

**Colonial Period (16th – 18th Centuries)**

In pre-Columbian times, preservation and dissemination of knowledge among the tribes that inhabited Colombia’s territory was not organized into a formal system of education. Upon the arrival of the first Spanish conquistadores in the New World, members of religious orders such as the Jesuits, the Franciscans and the Dominicans promptly assumed the responsibility of educating the indigenous population in Christian doctrine and the basics of Spanish language and customs. Since there existed little separation between church and state, religious authorities were involved in matters of colonial administration from the beginning and remained the principal influence in education for centuries to come. Consequently, colonial education emphasized Roman Catholic morals, obedience and austerity, as well as adherence to Spanish customs, loyalty to the Crown and respect for authority.

Education in the colonies was strictly divided along racial and gender lines. In other words, various types of schools imparted different kinds of education to different ethnic groups. Indigenous children were only allowed to attend the free elementary schools run by religious orders where they studied religion and the basics of writing and arithmetic. African slaves were prohibited from receiving any type of schooling. Girls were largely excluded from formal
education as well. The only group that had full access and the most choices with respect to education was young men from the wealthier families of Spanish descent. Many children were also taught at home either by their parents or by a more knowledgeable neighbour who acted as a private tutor. However, home instruction again benefited mostly the upper classes since they were able to hire professional tutors, frequently imported from Europe, or send their children to be educated abroad.

The first institutions of higher education on Colombian territory were established throughout the 16th and 17th centuries. For instance, the Dominicans founded the Universidad Santo Tomás in 1580. Similarly, the Jesuits created the Universidad Javeriana in 1623 and the Colegio Mayor de Nuestra Señora del Rosario in 1645. All of these institutions were established in Bogotá and still exist today. The universities were designed to train the Spanish and creole elite primarily in professions such as law and the priesthood. The curricula were purely theoretical and based on the seven liberal arts (“trivium and quadrivium”). Some of the subjects taught included jurisprudence, logic, grammar, theology and oratory.

Overall, education during colonial times lacked systematic organization. It developed spontaneously without much strategic planning. Formal supervision of all educational affairs in the colonies was exercised by the Secretariat of the Exterior (Secretaría del Exterior), but individual schools were founded and maintained by religious orders, private citizens or town councils. The quality of education varied greatly among the different institutions and most of them charged a fee, thus making education the privilege of a select minority. Other problems associated with the lack of planning in education included:

- increasingly poor access to schooling as the population of colonies grew but education remained centred in the main cities
- periodic shortages of educational resources resulting from unstable funding sources
- an overall low quality of teaching in the majority of schools due to the absence of a formal teacher-training process.

Throughout the 18th century, the country’s leading intellectuals frequently challenged the authority of the Church in the sphere of education. They were influenced by the secular ideas of the European Enlightenment and the concepts of positivism and empirical scientific investigation.

Among the most vocal reformers at the time were Magistrate Francisco Antonio de Moreno y Escandón and Archbishop Antonio Caballero y Góngora.

- Moreno y Escandón viewed education as a responsibility of the state and suggested the creation of the first public university. He proposed the inclusion of new subjects in the traditional curricula and was a strong proponent of experimentation and practical application of scientific knowledge.
- Caballero y Góngora was similarly in favour of modernizing the curriculum. He also supported the research of the Royal Botanical Expedition and reform-minded scientists like José Celestino Mutis.

Although many of these proposed reforms had to be abandoned due to clerical opposition, they demonstrate a gradual shift from traditional educational philosophy and the growing influence of secular ideas. The opening of the Royal Public Library in Bogotá in 1777 and the activation of the Royal Printing Press in 1782 further facilitated the spread of knowledge and new ideas.

**Independence Period (19th Century)**

The Wars of Independence and the proclamation of Greater Colombia marked the first half of the 19th century. The main objective of the government during the initial years of the republic (circa 1820–40) was to establish a centralized state geared toward strengthening public education, national industry and democratic institutions. Education was meant to consolidate the new nation and instill patriotism, civic values, social awareness and overall respect for the ideals of liberty, as well as the principles of equality and justice upon which the republic was founded.

In terms of administration, the Directorate General of Public Instruction (Dirección General de Instrucción Pública), established soon after independence, took charge of educational affairs in the new federation. For the first time, a division within state administration was created specifically to supervise and unify Colombia’s education system.

General Francisco de Paula Santander, who served as vice president of Greater Colombia (1821–28) and then as president of the Republic of New Granada (1832–37),
played a major role in the educational reforms of the time. Strongly in favour of secularization, Santander’s main goals were to create a structured state-controlled system of education and to increase the number of public schools (colegios and casas de educación offering elementary and secondary education) in all major cities and towns. As a result of his policies, by 1836 there existed more than one thousand public and private elementary schools, serving a student population of 26,070 (OEI and Ministerio de Cultura, 2003).

Education was structured into a basic level (elementary), followed by three years of study at a colegio (lower secondary) and then three years of study at the level of bachillerato (upper secondary), after which students could do five to six years of study in a professional career, plus two further years of study to obtain a doctorate. The academic titles awarded were bachiller (marking the completion of upper secondary studies), and licenciado and doctor (marking the completion of post-secondary studies).

During Santander’s time the government strongly encouraged the founding of new universities. Striving to increase access to university education by making it free, the government founded the National University of the United States of Colombia (Universidad Nacional de los Estados Unidos de Colombia) in 1867. It comprised the faculties of law, medicine, philosophy, arts, engineering and natural sciences. Among numerous other reforms, Santander’s government supervised the establishment of Colombia’s first normal schools (that is, teachers’ colleges) marking the recognition of teaching as a profession and ensuring proper training for teaching staff.

This period of liberal reforms and increased secularization of education ended in the late 1870s when political differences between liberals and conservatives led to violent confrontations. Ultimately, the conservatives triumphed and a new constitution was drafted in 1886. The document emphasized political centralization and administrative decentralization. In the field of education, it meant that departmental and municipal authorities now had a greater say in educational administration. Publicly funded elementary education was free but non-compulsory and religion assumed a principal role within the educational system once again. All teaching activity at public institutions was to be conducted in strict adherence to Roman Catholic doctrine, with archbishops being responsible for supervision of teachers and choice of textbooks. In 1888, religious instruction in schools was made obligatory for all.

**Modern Era (20th Century)**

1900s – 1940s

The early 1900s in Colombia were marked by the War of the Thousand Days, economic hardship, territorial loss of Panama, increased industrialization and urbanization, growing production and export of coffee and other commodities, and the emergence of new social movements. Many of these changes resulted in a rising demand for a skilled workforce. Hence, elementary and secondary education became a priority, with secondary education further subdivided into a technical and a classical stream. As for higher education, in 1920, Colombia’s population exceeded eight million inhabitants and the country had eight public and three private universities.

University students received instruction that was isolated from Colombian realities and largely based on European academic curricula that did not incorporate any local elements or research. Universities produced far too many medical doctors and lawyers, while failing to educate sufficient engineers, scientists and other professionals. Only gradually did the focus of university education begin to shift toward technical education. On the administrative level, in 1928 the ministry in charge of educational affairs adopted its current name and became known as the Ministry of National Education (Ministerio de Educación Nacional).

The period of 1930–46 is often referred to as the years of the Liberal Republic (La República Liberal) because of the return of liberal rule that fostered an atmosphere of intellectual open-mindedness and reform. Educational legislation of the 1930s sought greater secularization and increased state control of the Colombian education system. With the aim of promoting social integration, reforms were passed that allowed women to attend institutions of higher education, eliminated gender segregation in elementary and secondary schools, and abolished discrimination based on race, religion or origin in all schools. The dominant teaching methodologies at the time favoured observation, experimentation and a more active role for students.

At the university level, the reforms of the 1930s focused primarily on the National University, which was supposed
to serve as an example to other institutions of higher learning. New legislation established the academic and administrative autonomy of the university, reorganized and regrouped its faculties and institutes, streamlined enrolment and revised program curricula. Given that women also were now allowed to attend universities, the demand for higher education institutions increased, leading to the foundation of additional universities throughout Colombia. Yet the National University remained the centre of higher education. In 1935 it accounted for 43 per cent of all students officially enrolled in Colombian universities, and by 1943 the number rose to 70 per cent (UNESCO IESALC, 2002, p. 9). Despite political instability, overall attendance of higher education institutions has shown significant growth from the 1940s on. Between 1945 and 1954, for example, university enrolment increased by 63 per cent (Ministerio de Educación Nacional, ICFES, & OEI, 1993, p. 6).

1950s – 1980s

The liberal reforms met with strong opposition from supporters of the conservative party. As soon as the conservatives regained power in 1946, many laws and initiatives were reversed and the Roman Catholic religion regained its privileged position in education. Political turmoil between the country’s two main parties erupted once again, leading to a civil war that lasted for nearly ten years (1948–57). The unrest prompted political state intervention in university education and the abrogation of the autonomy previously granted to higher education institutions, resulting in numerous student protests. Once order was restored, a new decree reinstated these freedoms and defined the university as an apolitical and autonomous legal entity.

The late 1950s and the following two decades were marked by a focus on modernization and development. At the time, development was equated with economic growth. Rapid industrialization, neo-liberalism and modern applications of science and technology were all strongly advocated. Industrial models of production were soon converted into instructional design and education came to be viewed as yet another production process. Teaching methodologies, based on theories of educational technology and rooted in cognitive and behavioural psychology, gained great popularity. Little value was placed on the teaching of humanities and ethics since the emphasis was not on training socially conscious citizens, as in the 19th century, but on training productive individuals capable of sustaining their country’s economic growth.

Statistics from 1954 indicated that less than half of the children old enough to be enrolled in elementary education attended school; the numbers of teaching staff and educational institutions were far from sufficient. Problems within the school system manifested in high dropout and repetition rates, affecting children in rural areas the most. Consequently, expanded access to education and improvement of the quality of instruction became government priorities in the 1950s and 1960s.

Since the government wanted to address problems at the elementary level first, secondary education was not a priority. There was much debate and disagreement surrounding the definition and purpose of the secondary level. Some authorities maintained that secondary education represented a transitional step toward successful incorporation of students into the workforce. Thus, they insisted on a vocationally oriented secondary school education (bachillerato diversificado or bachillerato técnico). Others favoured a more humanistic view of secondary studies and considered them an essential part of basic education to be completed by all students before pursuing more specialized training. They advocated secondary education that imparted general knowledge (bachillerato clásico or bachillerato académico).

In the 1960s, institutions with a technical orientation received the most support, but later studies showed that the bachillerato técnico never became popular. It also proved more costly to implement and was not found to prepare students any better than the bachillerato académico for professional careers. Overall, the prolonged lack of state interest in this level of education meant that the foundation of new secondary schools and other improvements in secondary education were left almost entirely to private institutions.

More generally, throughout the 1950s and 1960s the state reasserted federal control of education, promoted secularization and continued its attempts to eliminate gender segregation and any discrimination based on socioeconomic status. The period also marked the start of official educational planning and the proclamation of a Five-Year Education Plan – the first of its kind not only in the history of Colombia but also of South America. The reforms of
the following decades focused on raising the quality of education, bringing more uniformity to the whole system and increasing access to education in more remote regions. Despite these conscious and targeted efforts to improve the state of education in Colombia, some of the objectives remained only partially achieved even by the 1980s.

### Table 1. Growth of enrolment in education compared to growth of the total population of Colombia (1980–2000)*

<table>
<thead>
<tr>
<th>POPULATION GROUPS</th>
<th>1980</th>
<th>1990</th>
<th>2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total population</td>
<td>28,355,626</td>
<td>34,874,523</td>
<td>41,682,594</td>
</tr>
<tr>
<td>Students enrolled in the 1st level of education (comparable to elementary education)</td>
<td>4,168,200</td>
<td>4,246,658</td>
<td>5,221,018</td>
</tr>
<tr>
<td>Students enrolled in the 2nd level of education (comparable to secondary education)</td>
<td>1,733,192</td>
<td>not available</td>
<td>3,568,889</td>
</tr>
<tr>
<td>Students enrolled in the 3rd level of education (comparable to higher or post-secondary education)</td>
<td>271,630</td>
<td>487,448</td>
<td>934,085</td>
</tr>
</tbody>
</table>

* Exact definitions of the education levels can be found in the UNdata: A World of Information website at http://data.un.org


In higher education from the late 1950s on, universities became crucial to Colombia’s industrialization process and began to offer a growing number of technological and professional programs. The next two decades were marked by privatization as well as modernization and diversification of university curricula. By 1970, according to UNESCO’s institute for education in Latin America, 45 per cent of all university students attended private institutions and the total number of all university programs reached 63, compared to 32 in the 1950s (IESALC, 2002, p. 9-10). The number of higher education institutions increased dramatically from 29 in 1960 to 193 in 1980 (ICFES, 2002, p. xxi).

Throughout the 1980s, the growing trend toward a critical examination of higher education resulted in legislation that improved policy coordination, set the minimum requirements for institutions of higher learning, initiated periodic evaluations of their academic and administrative performance and recognized research as an integral part of higher education.

### 1990s

The decade of the 1990s brought about major changes to the country’s political institutions and legislation. Colombia’s new constitution, enacted on 4 July 1991, gave far more attention to education than did the constitution of 1886. Education was defined as a person’s right and as a public service with a social function. The constitution established that education was the joint responsibility of the state, society and family, but it was the state—represented by the Ministry of National Education—that exercised the ultimate authority in all matters pertaining to formal instruction.

School attendance was made obligatory for those between the ages of 5 and 15, encompassing at least one year of preschool and nine years of basic (elementary and lower secondary) education. The new legislation abolished obligatory religious instruction in all public schools and formally recognized the right of members of ethnic groups to receive education that promoted the development of their cultural identity. The eradication of illiteracy and provision of education for students with special needs (including adults, rural populations and exceptionally gifted individuals) were mentioned as priorities of the state. The constitution also reaffirmed the autonomy of universities and the state pledged to strengthen its commitment to scientific research and to facilitate the financial aspect of access to higher education for individuals of all socio-economic backgrounds.

Two additional laws of great importance to Colombia’s educational system were passed shortly thereafter. Law 115, or the General Law of Education (Ley General de Educación), was enacted in 1994 and gave a new structure to Colombia’s educational system. Law 30, or the Law of Higher Education (Ley de Educación Superior), was passed in 1992 and established the legislative framework for higher education.
Present Times (21st Century)

As Figure 1 illustrates, over the last four decades, Colombia has made significant progress in the delivery of education on all levels.

**FIGURE 1. DEVELOPMENT OF GROSS ACCESS TO EDUCATION IN COLOMBIA (1960–2004)**

![Graph showing development of gross access to education in Colombia (1960–2004).]


Nevertheless, numerous challenges persist. In 2002, the average Colombian over the age of 15 had seven and a half years of education, a number lower than in most countries in the region. National statistics often conceal regional differences within Colombia, particularly the large gap between the country’s urban and rural areas. In comparison with their urban counterparts, rural students still perform worse at school, remain in the school system for fewer years and receive instruction of poorer quality.

The percentages of children who are not enrolled in educational institutions at all are high, and serve as another example of the disparities between Colombia’s urban centres and the countryside. Regional, national and international tests measuring students’ performance in different subject areas also indicate serious deficiencies in the quality of elementary and secondary education offered by Colombian schools, especially at public institutions.

Taking these realities into account, the underlying principles in educational policy planning in the 21st century have revolved around increased social inclusion and universal access to quality education, providing students with solid moral values and skills for life, revitalizing the central role of teaching staff and promoting administrative efficiency. Appendix B outlines the main topics addressed in the national education plans.

To summarize, following the reforms of the late 20th century, education in Colombia once again came to be perceived in more integral terms and recognized as the foundation of human, social, political and cultural development of the nation. Current educational planning increasingly reflects the demands of our times. Even in the 21st century, however, the old issues of access to education and the quality of instruction remain among the top challenges facing Colombia’s system of education.

**TABLE 2. PERCENTAGE OF SCHOOL-AGED POPULATION NOT ENROLLED IN THE EDUCATIONAL SYSTEM (2001)**

<table>
<thead>
<tr>
<th>LEVEL</th>
<th>PRE-SCHOOL (5–6 YEARS)</th>
<th>PRIMARY (7–11 YEARS)</th>
<th>LOWER SECONDARY (12–15 YEARS)</th>
<th>UPPER SECONDARY (16–17 YEARS)</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban</td>
<td>13.6</td>
<td>4.2</td>
<td>10.4</td>
<td>34.6</td>
<td>12.1</td>
</tr>
<tr>
<td>Rural</td>
<td>33.0</td>
<td>9.9</td>
<td>28.8</td>
<td>56.5</td>
<td>25.4</td>
</tr>
<tr>
<td>National</td>
<td>19.6</td>
<td>5.9</td>
<td>16.0</td>
<td>40.7</td>
<td>16.1</td>
</tr>
</tbody>
</table>

School Education

Types of Education

The General Law of Education (Law 115) of 1994—complemented by numerous decrees, resolutions and directives—governs nearly all aspects of Colombia’s educational system. Education in Colombia falls into one of three categories.

1. **Formal education** (educación formal), which constitutes the core of the educational system, refers to conventional school education imparted at recognized educational establishments. Courses are taught in a progressive sequence and instruction is organized in a system of levels, cycles and grades. On completion of one level, students receive an official diploma (diploma) awarding an academic title (título académico). Formal education is subdivided into five levels:
   - preschool (preescolar)
   - elementary (básica primaria)
   - lower secondary (básica secundaria)
   - upper secondary (media)
   - higher education (educación superior)

2. **Non-formal education** (educación no formal), renamed in 2006 to education for employment and human development (educación para el trabajo y el desarrollo humano), which functions as a complement to formal education. It does not lead to academic titles and is not structured into levels, cycles or grades. Its main objective is to provide apprenticeships and practical training leading to certificates and to allow students to update their skills and knowledge. Non-formal education is promoted primarily by the National Apprenticeship Service (Servicio Nacional de Aprendizaje or SENA).

3. **Informal education** (educación informal) is defined as all knowledge acquired freely and spontaneously from individuals, institutions, the media, cultural traditions and customs, social norms, and other non-structured social behaviours.

As of 1991, compulsory schooling for all Colombian children begins at the age of 5 and covers 10 years, consisting of one year of preschool education and nine years of basic (elementary and lower secondary) education. Prior to 1991, only the five years of elementary education were obligatory.

School Calendar

Colombian students receive 40 weeks of instruction in the course of a school year, which is subdivided into two semesters of equal length. In addition to statutory holidays and brief school-scheduled vacation periods, students have approximately four weeks of vacation after each semester of study and one week of holidays during Easter time. Because climatic conditions vary greatly in different parts of Colombia, there are two academic calendars in effect:

- Calendar A—applicable to most of the country; the academic year starts at the beginning of February and ends in November or December.
- Calendar B—followed only by the departments of

<table>
<thead>
<tr>
<th>YEAR OF STUDY</th>
<th>AGE RANGE</th>
<th>GRADE</th>
<th>LEVEL OF EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>16–17</td>
<td>11</td>
<td>Upper secondary education</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Educación media)</td>
</tr>
<tr>
<td>11</td>
<td>15–16</td>
<td>10</td>
<td>Lower secondary education</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Educación básica secundaria)</td>
</tr>
<tr>
<td>10</td>
<td>14–15</td>
<td>9</td>
<td>Elementary education</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Educación básica primaria)</td>
</tr>
<tr>
<td>9</td>
<td>13–14</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>12–13</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>11–12</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>10–11</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>9–10</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>8–9</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>7–8</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>6–7</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>5–6</td>
<td></td>
<td>Transition (Transición)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Preschool education – obligatory</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Educación preescolar obligatoria)</td>
</tr>
<tr>
<td>4–5</td>
<td>Kindergarten (Jardín)</td>
<td>Preschool education – optional</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Educación preescolar opcional)</td>
</tr>
<tr>
<td>3–4</td>
<td>Pre-Kindergarten (Pre-Jardín)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Cauca, Nariño, Putumayo and Valle del Cauca; the academic year starts at the beginning of September and ends in June.

If a particular school wishes to follow a calendar other than the one prescribed for its locality, the Ministry of National Education can approve exceptions.

Students attend classes Monday through Friday. The average school day lasts from 7 or 8 a.m. until 3 or 4 p.m. Individual schools determine the exact duration of lessons and breaks. To accommodate large numbers of students, some educational institutions offer the same classes in the mornings and in the afternoons.

Types of Schools

Schools in Colombia can be either public (oficiales, estatales or públicas) or private (no oficiales or privadas). Both types of establishments must adhere to the regulations set by the Ministry of National Education. Attendance at state-run schools is free of charge since they are financed exclusively by the state.

Private establishments are known for offering a better quality of education, but their tuition fees can reach an amount equivalent to hundreds of Canadian dollars per month. Most of these schools are managed by religious orders of the Roman Catholic Church. Several international schools also operate in Bogotá and other major cities. Most private schools offer a limited number of scholarships to financially disadvantaged students who excel in their studies. Subsidies through public benefit funds are also available to families in need of financial assistance.

<table>
<thead>
<tr>
<th>TABLE 4. NUMBER OF PUBLIC AND PRIVATE SCHOOLS OFFERING ELEMENTARY, LOWER SECONDARY AND UPPER SECONDARY EDUCATION IN COLOMBIA (2005)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NUMBER OF ESTABLISHMENTS</strong></td>
</tr>
<tr>
<td>Public schools</td>
</tr>
<tr>
<td>Private schools</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

**Language of Instruction**

In most Colombian schools, Spanish is the sole language of instruction. Indigenous groups have the right to receive bilingual education in Spanish and their mother tongue within the territories they traditionally inhabited. International schools also offer bilingual education and incorporate elements from foreign curricula into the Colombian program.

**Special Types of Schools and Programs**

Aside from the different types of schools, special provisions are in place for the delivery of education to certain population groups: disabled or exceptionally gifted students, adults, ethnic groups (primarily indigenous and Afrocolombian communities), rural populations and those in need of social rehabilitation.

- Adult education (educación de adultos or educación para adultos) is offered by both private and public institutions and classes are generally taught on a part-time basis in the evenings and on weekends. The various programs available to adults focus on literacy skills, formal education and other kinds of non-formal and informal training.

- Education for indigenous ethnic populations (etnoeducación) is not only delivered bilingually, but also incorporates the customs, worldviews, beliefs and forms of social organization particular to these groups.

- Alternative teaching models, such as the Escuela Nueva (New School) approach, have been developed and implemented for rural populations.

- Yet another mode of education that has become increasingly popular with the spread of modern information and communication technologies is distance learning (educación a distancia). Currently, distance education programs exist at all educational levels and the titles awarded upon the completion of such programs have the same validity as those awarded by regular institutions.

**Licensing and Quality Assurance**

In order to be recognized as an educational institution (institución educativa), a school must offer all the levels of obligatory education. If it does not fulfill this requirement, it is classified as an educational centre (centro educativo). All schools must be licensed to operate or be officially recognized by the departmental, district, or regional Secretariat of Education (Secretaría de Educación). Licensing is dependent on the school having sufficient physical and administrative infrastructure, appropriately trained teaching personnel and other necessary educational resources. The school must also develop and implement an institutional project of education (proyecto educativo institucional)—a document outlining virtually every aspect of school life and administrative organization.

In the section of its website titled Educational Establishments (Establecimientos Educativos), the Ministry of National Education publishes a list of all licensed schools. This online database can be searched according to numerous criteria such as the geographical location of the school, the types of education it offers, the tuition fees it charges, and the ranking the institution has achieved on national examinations.

Apart from obtaining a license to operate, there is no official quality-based accreditation for Colombian schools. The Ministry of National Education, however, closely monitors the quality of instruction through the SABER Tests (Pruebas SABER) and the State Examinations for Admission to Higher Education (Exámenes de Estado para Ingreso a la Educación Superior). The SABER Tests have been administered nationwide since 1991 to students enrolled in Grades 5 and 9. The examinations are designed to measure basic skills in the areas of language, mathematics, sciences and civic competencies.

Since 1968 the Colombian Institute for the Promotion of Higher Education (Instituto Colombiano para el Fomento de la Educación Superior or ICFES) has administered the State Examinations for Admission to Higher Education to students who have completed upper secondary education and are planning to enter an institution of higher education. Schools are classified according to the performance of their students on these examinations. The ranking is made available to the public through the Ministry of National Education.

Many schools also seek voluntary certification from independent quality assurance organizations. For example, the Colombian Institute for Technical Norms and Certification (Instituto Colombiano de Normas Técnicas y Certificación or ICONTEC) has awarded ISO 9001:2000 certificates to schools in recognition of high quality program design and management.
Administration
All levels of public and private education in Colombia are subject to the administrative authority of the Ministry of National Education (Ministerio de Educación Nacional). Other territorial authorities at the level of the departments, districts and municipalities supervise the implementation of policies set by the ministry and share the responsibilities for financing, administration and proper delivery of educational services within their jurisdictions. For details of administrative responsibilities, refer to Appendix C.

Preschool Education
(Age 3 to 6 Years)
Preschool education in Colombia consists of three stages:
- pre-kindergarten (pre-jardín, pre-kindergarten or pre-kinder)
- kindergarten (jardín, kindergarten or kinder)
- transition (transición)
While the first two stages are not compulsory, as of 1991 all children are required by law to attend the transition grade. Establishments providing this type of education are generally called jardín, jardín infantil, kindergarten or, more informally, kinder. There are no admission requirements for any of the three grades at this level.

The minimum educational requirement for preschool teachers is the completion of a baccalaureate (bachillerato) and the post-secondary diploma cycle in teacher education. For more details, see the chapter on teacher education.

The primary goal of education at this level is to promote various aspects of a child’s development: biological, sensory, cognitive, social, affective and spiritual. During the first two stages of preschool, children participate in educational and recreational activities that stimulate their creativity and teach them to express themselves. The transition grade emphasizes skills that prepare the young students for the demands of subsequent stages of their education. During this phase, children acquire basic skills in reading, writing and mathematics. A sample curriculum with hourly distribution is shown in Appendix D.

In adherence to national legislation, preschool students must receive a minimum of 20 hours of instruction per week, which amounts to 800 hours per school year. The focus of preschool education is on the quality of a child’s development. Therefore, evaluation is not expressed in points or percentages but rather in descriptive progress reports. Students cannot fail a grade, and upon completion of the transition stage they proceed automatically to elementary school.

Elementary Education
(Age 6 to 11 Years)
Elementary education in Colombia is obligatory and includes Grades 1 through 5. It constitutes the first cycle of basic education. Establishments providing this type of education have traditionally been called escuelas (schools) or escuelas primarias (primary or elementary schools), but now they are generally incorporated into larger establishments providing secondary education as well. There are no specific requirements for admission to this stage of education other than having attended the transition grade.

The minimum educational requirement for elementary teachers is the completion of a baccalaureate (bachillerato) and the post-secondary diploma cycle in teacher education. For more details, see the chapter on teacher education.

Curriculum
At the elementary level, students receive a minimum of 25 hours of instruction per week, which amounts to a minimum of 1,000 hours per school year. A sample curriculum with hourly distribution is shown in Appendix D.

Before the General Law of Education came into effect in 1994, the curriculum for elementary education was organized around seven major subject areas. Currently, the core of the curricula for elementary, lower secondary and upper secondary education consists of the so-called
obligatory and fundamental areas (áreas obligatorias y fundamentales). Current legislation does not dictate the exact distribution of hours, which is determined by individual schools, but it does stipulate that the subjects taught as part of the obligatory and fundamental areas must account for a minimum of 80 per cent of total instructional hours.

Options within the obligatory areas and possible additional subjects are chosen and developed by schools. The selection is based on regional demands and the resources available. The local Secretariats of Education are responsible for aiding individual institutions in this process. Before the curricula are implemented, they must be reviewed and approved by the Secretariats. Refer to Appendix D for a sample of a current school curriculum.

**FIGURE 2. CORE AREAS FOR ELEMENTARY, LOWER SECONDARY AND UPPER SECONDARY SCHOOL CURRICULA**

<table>
<thead>
<tr>
<th>PRIOR TO 1994</th>
<th>AFTER 1994</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPPER SECONDARY</td>
<td>ELEMENTARY</td>
</tr>
<tr>
<td>LOWER ELEMENTARY</td>
<td>Core areas:</td>
</tr>
<tr>
<td>• Spanish language</td>
<td>• Humanities, Spanish language and foreign languages</td>
</tr>
<tr>
<td>• Mathematics</td>
<td>• Social sciences, history, geography, political</td>
</tr>
<tr>
<td>• Social studies</td>
<td>• constitution and democracy</td>
</tr>
<tr>
<td>• Natural sciences</td>
<td>• Artistic and cultural education</td>
</tr>
<tr>
<td>• Aesthetic and manual education</td>
<td>• Religious education*</td>
</tr>
<tr>
<td>• Religion</td>
<td>• Physical education, recreation and sports</td>
</tr>
<tr>
<td>• Physical education</td>
<td>• Education in ethics and human values</td>
</tr>
<tr>
<td>Additional areas:</td>
<td>• Technology and computing</td>
</tr>
<tr>
<td>• Technology studies</td>
<td>• Vocational initiation</td>
</tr>
<tr>
<td>• Foreign language</td>
<td>(in Grades 8 and 9)</td>
</tr>
<tr>
<td>Additional subject:</td>
<td></td>
</tr>
<tr>
<td>• Philosophy</td>
<td></td>
</tr>
<tr>
<td>Specialization</td>
<td>Specialization</td>
</tr>
</tbody>
</table>

* Religious education is offered by all educational establishments, but as of 1991, participation in this subject in public schools is optional.
Examinations and Exit Credentials

In Colombian schools, passing to the next grade is based exclusively on internal assessments. In Grade 5, all children participate in the national SABER Tests (Pruebas SABER), which measure basic skills in the areas of language, mathematics, sciences and civic competencies. Primarily, the tests assess the quality of education provided by individual schools. While the tests are a good indicator of the general level of skills and knowledge acquired by individual students, they have no direct impact on whether or not a student passes the grade.

Upon successful completion of elementary school, students may receive the Certificate of Completion of the Fifth Grade of Elementary Instruction (Certificado al Quinto Grado de Enseñanza Primaria), but in most cases they receive only a transcript of all the courses completed and the grades achieved. All students are obliged by law to continue their education for another four years at the lower secondary level.

Lower Secondary Education (Age 11 to 15 Years)

Despite numerous reforms, the overall structure of secondary education in Colombia has remained unchanged for several decades. Secondary studies last six years in total, with four years of instruction at the lower secondary level and two at the upper secondary level.

Lower secondary education represents the second cycle of basic education and the last stage of compulsory education. It encompasses Grades 6 through 9. The current most common name for lower secondary education is educación básica secundaria, but terminology may vary. The sole requirement for admission to lower secondary education is successful completion of elementary school. Establishments providing lower and upper secondary education are usually called colegios, liceos, gimnasios or institutos.

The minimum educational requirement for lower secondary teachers is an undergraduate degree in education (licenciatura). Alternatively, teachers can hold an undergraduate degree in a specific profession, preferably related to the subject they intend to teach, supplemented by additional teacher training. For more details, see the chapter on teacher education.

Curriculum

Students enrolled in lower secondary education receive a minimum of 30 hours of instruction per week, amounting to a minimum of 1,200 hours per school year. A sample curriculum with hourly distribution is shown in Appendix D. Prior to 1994, the lower secondary curriculum was organized around the core areas described in Figure 2. Grades 6 and 7 were referred to as vocational exploration (exploración vocacional) since during this stage students would decide on their field of specialization. In Grades 8 and 9, the number of hours spent on general subjects was slightly decreased as students began specializing in their interest area. These last two years of lower secondary education were known as vocational initiation (iniciación vocacional). Currently, the curriculum for lower secondary education is structured around the same obligatory and fundamental areas as elementary education. The process and regulations for curriculum design are also the same as for the elementary level.

Examinations and Exit Credentials

Passing to the next grade (and the next education level) is based exclusively on internal school assessments. In Grade 9, students again participate in the national SABER Tests, administered in the subject areas of language, mathematics, sciences and civic competencies. The results of these examinations are not counted toward the students’ final evaluation.
Completion of Grade 9 concludes the ten years (transition grade plus Grades 1 to 9) of obligatory education for Colombian youth. In most cases, those planning to continue their education at the upper secondary level proceed automatically to Grade 10, without being awarded a certificate. Some schools, however, may award:

- the Certificate of Basic Secondary School Studies (Certificado de Estudios del Bachillerato Básico)
- which can also be called Certificate of Completion of Studies of Basic Education (Certificado de Término de Estudios de Educación Básica)
- and which was formerly known as the Certificate of Completion of the Basic Cycle of Middle Instruction (Certificado de Aprobación del Ciclo Básico de Enseñanza Media)

Prior to 1974, students who successfully completed Grade 9 with a specialization in commerce or industry were granted the title of experto (expert).

Depending on personal inclinations and academic performance, students graduating from Grade 9 have three options: to continue their studies at the upper secondary level, to join a technical apprenticeship program or to seek employment.

Upper Secondary Education (Age 15 to 17 Years)

Upper secondary education in Colombia is not obligatory and covers Grades 10 and 11.

It is designed to consolidate and culminate the knowledge and skills acquired at previous levels. The only requirement for admission to upper secondary education is successful completion of Grade 9.

The minimum educational requirement for upper secondary teachers is an undergraduate degree in education (licenciatura). Alternatively, teachers can hold an undergraduate degree in a specific profession, preferably related to the subject they intend to teach, supplemented by additional teacher training. For more details, see the chapter on teacher education.

This level of education is referred to as educación media or educación media vocacional, but the actual program of study is commonly referred to as bachillerato (literally the baccalaureate). The name of the credential or the title that students receive upon graduation is bachiller. The Spanish term bachiller is also used in reference to the person holding the title. The use of the word vocacional (vocational) in connection with this level of education does not mean that the program provides occupational or technical training but rather that it allows students to specialize in either an academic or a professionally oriented area.

<table>
<thead>
<tr>
<th>SPANISH TERM</th>
<th>ENGLISH TRANSLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educación* media**</td>
<td>Upper secondary education</td>
</tr>
<tr>
<td>Educación media académica</td>
<td>Academic upper secondary education</td>
</tr>
<tr>
<td>Educación media diversificada</td>
<td>Diversified upper secondary education</td>
</tr>
<tr>
<td>Educación media vocacional</td>
<td>Vocational upper secondary education</td>
</tr>
<tr>
<td>Educación secundaria vocacional</td>
<td>Vocational secondary education</td>
</tr>
<tr>
<td>Educación media – ciclo vocacional</td>
<td>Upper secondary education – vocational cycle</td>
</tr>
<tr>
<td>Educación secundaria – ciclo vocacional</td>
<td>Secondary education – vocational cycle</td>
</tr>
<tr>
<td>Ciclo segundo (de secundaria)</td>
<td>Second cycle (of secondary school)</td>
</tr>
<tr>
<td>Ciclo vocacional (de secundaria)</td>
<td>Vocational cycle (of secondary school)</td>
</tr>
<tr>
<td>Bachillerato superior</td>
<td>Higher baccalaureate</td>
</tr>
<tr>
<td>Bachillerato universitario</td>
<td>University baccalaureate</td>
</tr>
<tr>
<td>Bachillerato diversificado</td>
<td>Diversified baccalaureate</td>
</tr>
</tbody>
</table>

* The terms educación (education) and enseñanza (instruction) are often used interchangeably.
** Media literally means “middle,” but is translated here as “upper secondary” for greater clarity.

Curriculum

As at the lower secondary level, upper secondary students must receive a minimum of 30 hours of instruction per week, amounting to a minimum of 1,200 hours per school year. In practice, students generally receive 35 to 40 hours of weekly instruction.

The main areas of upper secondary curricula before and after 1994 are summarized in Figure 2. The process and regulations for curriculum design are the same as for the elementary and lower secondary levels. A sample curriculum with hourly distribution is shown in Appendix D.

Because of the specialized nature of upper secondary education in Colombia, traditionally the bachillerato programs have been described in terms of their type (tipo),
modality (modalidad), specialty (especialidad or opción), or area (área). Over the years, the actual baccalaureate streams have changed little, but during different time periods the programs were officially grouped in different ways. In practice, time periods and nomenclature overlapped greatly.

TABLE 7. TYPES OF BACHILLERATOS (THAT IS, BACCALAUREATE PROGRAMS) IN REVERSE CHRONOLOGY

A) STARTING IN 1994

<table>
<thead>
<tr>
<th>SPANISH DESIGNATION</th>
<th>ENGLISH TRANSLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachillerato académico</td>
<td>Academic baccalaureate</td>
</tr>
<tr>
<td>Bachillerato (in a specialization)</td>
<td>Baccalaureate (in a specialization)</td>
</tr>
</tbody>
</table>

B) OFFICIALLY STARTING IN 1978*

<table>
<thead>
<tr>
<th>SPANISH DESIGNATION</th>
<th>ENGLISH TRANSLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachillerato en ciencias</td>
<td>Baccalaureate in sciences</td>
</tr>
<tr>
<td>Ciencias matemáticas</td>
<td>Mathematical sciences</td>
</tr>
<tr>
<td>Ciencias naturales</td>
<td>Natural sciences</td>
</tr>
<tr>
<td>Ciencias humanas</td>
<td>Human sciences</td>
</tr>
<tr>
<td>Bachillerato en tecnología</td>
<td>Baccalaureate in technology</td>
</tr>
<tr>
<td>Pedagógico</td>
<td>Pedagogy</td>
</tr>
<tr>
<td>Industrial</td>
<td>Industrial</td>
</tr>
<tr>
<td>Agropecuaria</td>
<td>General agriculture</td>
</tr>
<tr>
<td>Comercial</td>
<td>Commercial</td>
</tr>
<tr>
<td>Salud y nutrición</td>
<td>Health and nutrition</td>
</tr>
<tr>
<td>Educación física y recreación</td>
<td>Physical education and recreation</td>
</tr>
<tr>
<td>Promoción de la comunidad</td>
<td>Community development</td>
</tr>
<tr>
<td>Bachillerato en arte</td>
<td>Baccalaureate in arts</td>
</tr>
<tr>
<td>Bellas artes</td>
<td>Fine arts</td>
</tr>
<tr>
<td>Artes aplicadas</td>
<td>Applied arts</td>
</tr>
</tbody>
</table>

C) STARTING IN 1974

<table>
<thead>
<tr>
<th>SPANISH DESIGNATION</th>
<th>ENGLISH TRANSLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachillerato académico or</td>
<td>Academic baccalaureate or</td>
</tr>
<tr>
<td>Bachillerato clásico*</td>
<td>Classical baccalaureate</td>
</tr>
<tr>
<td>Bachillerato comercial</td>
<td>Commercial baccalaurete</td>
</tr>
<tr>
<td>Bachillerato industrial</td>
<td>Industrial baccalaureate</td>
</tr>
<tr>
<td>Bachillerato agropecuario</td>
<td>Agricultural baccalaurete</td>
</tr>
<tr>
<td>Bachillerato en promoción</td>
<td>Baccalaureate in social service</td>
</tr>
<tr>
<td>social</td>
<td></td>
</tr>
<tr>
<td>Bachillerato pedagógico or</td>
<td>Pedagogical baccalaurete or</td>
</tr>
<tr>
<td>Formación normalista</td>
<td>Teacher training</td>
</tr>
</tbody>
</table>

* These reforms to the bachillerato programs were legislated by Decreto 1419 in July 1978, but Colombian schools never uniformly implemented them and the old nomenclature largely prevailed.

In 1994, the General Law of Education divided baccalaureate programs into those with an academic orientation (carácter académico) and those with a technical orientation (carácter técnico).

- **Academic orientation**: academic core + academic specialization.
  The purely academic stream offers general academic education plus the option to specialize in a specific academic area such as natural sciences, social sciences, humanities, arts or foreign languages. Those who complete the program graduate with the title of bachiller académico (academic baccalaureate) and generally enter higher education. The academic baccalaureate has been by far the most popular among Colombian students. It is also the type of baccalaureate program that private schools tend to offer.
• **Technical orientation:** academic core + professionally oriented specialization

The technical stream aims to prepare students for entry into higher education as well as for employment in a specific field. The numerous areas of specialization include agriculture, commerce, finances, administration, ecology, industry, computing, mining, health, recreation, tourism, sports and others as determined by regional and labour market demands. Graduates from all modalities of the technical stream receive the title of bachiller in their chosen specialization.

At the upper secondary level, a school normally offers only one or two kinds of bachillerato. The National Institutes of Diversified Middle Education (Institutos Nacionales de Educación Media Diversificada or INEM), frequently described as comprehensive secondary schools, are an exception since they have been designed to provide various types of academically and technically oriented bachilleratos. The escuelas normales superiores (teacher-training schools; literally “higher normal schools”) also offer secondary education with a focus on academic subjects and teacher training. Another type of institution authorized to provide secondary education is military schools (colegios militares), although the military secondary school diploma (bachiller militar or bachiller académico con orientación militar) is not common.

**Examinations and Exit Credentials**

Successful completion of a bachillerato leads to the title of bachiller in a specific area. For example, a student graduating from the program of bachillerato académico would be awarded the title of bachiller académico. On the actual certificate, the name of the credential can be preceded by phrases like:

- **título de** (title of) …
- **diploma de** (diploma of) …
- **grado de** (degree of) …

In fact, the above phrases can precede any Colombian academic credential, regardless of the level of study. The bachiller diploma is often referred to in English as the baccalaureate or secondary school diploma. Students graduating from international schools generally have the option of obtaining two credentials: the Colombian bachiller and its foreign equivalent or an International Baccalaureate diploma.

The title of bachiller can also be acquired by passing an official validation examination (Examen de Validación del Bachillerato Académico) administered by ICFES (Instituto Colombiano para el Fomento de la Educación Superior or the Colombian Institute for the Promotion of Higher Education). Prior to the 1990s, the holders of a certificate of occupational aptitude (certificado de aptitud ocupacional) or CAO—formerly referred to as certificate of professional aptitude (certificado de aptitud profesional) or CAP—who accumulated two years of work experience could also obtain a Certificate of Equivalence of the Secondary School Diploma (Certificado de Equivalencia del Grado de Bachiller) issued by ICFES. Although this certificate did not have equal academic value to a regular bachiller diploma or a bachiller diploma obtained through validation, it gave its holders access to education at the intermediate and/or professional technical and technological levels. Also, although it is not a widespread practice, some upper secondary schools may allow their students to earn certain vocational designations (that is, CAOs) while working toward their bachiller title.

For documentation, upper secondary graduates receive a diploma, usually accompanied by a graduation record and a transcript, issued by the school where they completed their bachillerato. Samples and detailed descriptions of these documents can be found in the documentation chapter.

The baccalaureate entitles graduates to either seek employment or apply for admission to post-secondary institutions. It is important to emphasize that all types of bachiller entitle students to enter any program at an institution of higher education, provided that they satisfy the requirements set by the institution and pass the State Examination for Admission to Higher Education (Examen de Estado para Ingreso a la Educación Superior).

This examination is commonly referred to as examen de estado (state exam) or pruebas ICFES (ICFES tests) and is held in all major cities twice a year. It has been administered directly by ICFES since 1968, but it was not until 1980 that participation in the exam became compulsory for all students planning further studies. The exam consists of a series of tests designed to assess students’ competencies in the areas of natural sciences (biology, physics, chemistry), social sciences, Spanish language, philosophy, mathematics, a foreign language (English, French or German) and selected interdisciplinary topics (for example,
environmental studies, culture and communication, society and violence). Students can consult their scores online on the ICFES website. Sample exam results are shown in the documentation chapter. The results are important to schools since student performances determine the quality ranking of each educational institution.

**Grading Scales**

In general, Colombian students receive four quarterly report cards and one final evaluation report. The regulations for passing a grade are typically:

- Students must obtain an overall minimum final average of 6.0 (the lowest passing grade) in order to be promoted to the next grade level.
- Students who fail only one subject may still be promoted to the next grade if their grade point average is at least 7.0.
- Students who fail one or two subjects and have a low overall average are required to take make-up exams.
- Students must repeat a year if they obtain a failing grade in three or more subjects or if they are absent without justification 25 per cent of the class time during a school year.

It is the responsibility of each school to ensure that 95 per cent of all students pass to the next grade.

Several grading scales have been used in Colombia in recent years. The Ministry of National Education sets the terminology for evaluation, but individual schools determine the exact criteria. In other words, the point and percentage equivalents in the figures below should be viewed as approximate values.

| TABLE 8. GRADING SCALES FOR ELEMENTARY, LOWER SECONDARY AND UPPER SECONDARY EDUCATION |
|---------------------------------------------|------------------------------|-----------------------------------------------|----------------|
| **A) 2002 – PRESENT**                      |                              |                                               |                |
| **SPANISH TERM**                            | **ENGLISH TRANSLATION**      | **APPROX. POINT AND PERCENTAGE EQUIVALENT**   | **COMMENTS**   |
| Excelente (E)                               | Excellent                    | 9 – 10 or 90 – 100%                          | Maximum grade  |
| Sobresaliente (S)                           | Outstanding                  | 8 – 8.9 or 80 – 89%                          |                 |
| Aceptable (A)                               | Acceptable                   | 6 – 7.9 or 60 – 79%                          | Lowest passing grade |
| Insuficiente (I)                            | Insufficient                 | 4 – 5.9 or 40 – 59%                          | Failing grade  |
| Deficiente (D)                              | Deficient                    | 0 – 3.9 or 0 – 39%                           |                 |
| **B) 1994 – 2002**                          |                              |                                               |                |
| **SPANISH TERM**                            | **ENGLISH TRANSLATION**      | **APPROX. POINT AND PERCENTAGE EQUIVALENT**   | **COMMENTS**   |
| Excelente (E)                               | Excellent                    | 8 – 10 or 80 – 100%                          | Maximum grade; awarded to students who exceed most performance expectations |
| Bien or Bueno (B)                           | Good                         | 6 – 7.9 or 60 – 79%                          | Lowest passing grade; awarded to students who meet most performance expectations with only minor limitations or deficiencies |
| Insuficiente (I)                            | Insufficient                 | 1 – 5.9 or 0 – 59%                           | Failing grade; awarded to students who do not meet most performance expectations |
### Table 9. Older Grading Scales for Lower and Upper Secondary Education

#### A) 1974 – 1994

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ALTERNATIVE POINT EQUIVALENT*</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5 – 10.0</td>
<td>95 – 100</td>
<td>Maximum grade; rarely attained; indicates superior performance</td>
</tr>
<tr>
<td>8.5 – 9.4</td>
<td>85 – 94</td>
<td>Indicates excellent performance</td>
</tr>
<tr>
<td>7.5 – 8.4</td>
<td>75 – 84</td>
<td>Indicates good performance</td>
</tr>
<tr>
<td>6.0 – 7.4</td>
<td>60 – 74</td>
<td>Lowest passing grade; indicates satisfactory performance</td>
</tr>
<tr>
<td>1.0 – 5.9</td>
<td>0 – 59</td>
<td>Failing grade</td>
</tr>
</tbody>
</table>

* The 100-point scale gained popularity after 1978, but schools never universally adopted it.

#### B) 1934 – 1974

<table>
<thead>
<tr>
<th>GRADE</th>
<th>SPANISH TERM</th>
<th>ENGLISH TRANSLATION</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Muy bien</td>
<td>Very good</td>
<td>Maximum grade</td>
</tr>
<tr>
<td>4</td>
<td>Bien</td>
<td>Good</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Regular</td>
<td>Regular</td>
<td>Lowest passing grade</td>
</tr>
<tr>
<td>2</td>
<td>Mal</td>
<td>Bad</td>
<td>Failing grade</td>
</tr>
<tr>
<td>1</td>
<td>Muy mal</td>
<td>Very bad</td>
<td></td>
</tr>
</tbody>
</table>

To illustrate how the interpretation of the evaluation criteria can vary among institutions, sample grading scales employed by three schools in Bogotá are shown in Table 10. International schools frequently use the parallel grading scales prevalent in their home country. Detailed evaluation criteria are sometimes specified on the transcripts issued by the schools.

### Table 10. Grading Scales from Three Schools in Bogotá with the Lowest Passing Grade Marked in Bold (September 2007)

<table>
<thead>
<tr>
<th>GRADE</th>
<th>COLEGIO COLOMBO HEBREO</th>
<th>COLEGIO ABRAHAM LINCOLN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excelente (E) – Excellent</td>
<td>90 – 100%</td>
<td>91 – 100%</td>
</tr>
<tr>
<td>Sobresaliente (S) – Outstanding</td>
<td>80 – 89%</td>
<td>81 – 90%</td>
</tr>
<tr>
<td>Acceptable (A) – Acceptable</td>
<td>70 – 79%</td>
<td>76 – 80%</td>
</tr>
<tr>
<td>Insuficiente (I) – Insufficient</td>
<td>50 – 69%</td>
<td>41 – 75%</td>
</tr>
<tr>
<td>Deficiente (D) – Deficient</td>
<td>10 – 49%</td>
<td>0 – 40%</td>
</tr>
</tbody>
</table>

#### Grade Colegio Andino

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ORAL PERFORMANCE</th>
<th>WRITTEN EXAMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muy bueno – Very good</td>
<td>9.0 / 9.5 / 10.0</td>
<td>9.0 – 10.0</td>
</tr>
<tr>
<td>Bueno – Good</td>
<td>8.0 / 8.5</td>
<td>8.0 – 8.9</td>
</tr>
<tr>
<td>Satisfactorio – Satisfactory</td>
<td>7.0 / 7.5</td>
<td>7.0 – 7.9</td>
</tr>
<tr>
<td>Acceptable – Acceptable</td>
<td>6.0 / 6.5</td>
<td>6.0 – 6.9</td>
</tr>
<tr>
<td>Insuficiente – Insufficient</td>
<td>4.0 / 4.5 / 5.0 / 5.5</td>
<td>4.0 – 5.9</td>
</tr>
<tr>
<td>Deficiente – Deficient</td>
<td>2.0 / 2.5 / 3.0 / 3.5</td>
<td>2.0 – 3.9</td>
</tr>
</tbody>
</table>

**Higher Education**

Enacted in 1992, the Law of Higher Education (*Ley de Educación Superior*) or Law 30 forms the legal basis for the organization of post-secondary education in Colombia. Any type of study following the completion of the upper secondary level is generally referred to in Colombia as higher education (*educación superior*). The term post-secondary (*postsecundaria*) is used less frequently in Spanish.

**FIGURE 3. STRUCTURE OF COLOMBIA'S HIGHER EDUCATION SYSTEM**

![Diagram of Colombian higher education system]

**Note:**

Any of the credentials above can be preceded by phrases like *título de* (title of), *diploma de* (diploma of), *grado de* (degree of), *grado profesional de* (professional degree of), or *título profesional de* (professional title of). The last two phrases tend to be used with undergraduate degrees.

**COLOUR LEGEND:**

- Education imparted primarily at professional technical institutions
- Education imparted primarily at technological institutions
- Education imparted primarily at universities, university institutions and technological schools
- Education imparted exclusively at universities
Institutions

The institutions providing higher education are classified into the categories of professional technical institutions, technological institutions, technological schools, university institutions and universities. In Spanish, the actual name of any one of the institutions in Figure 3 can include the words corporación (corporation), fundación (foundation), escuela (school), colegio or colegio mayor (college) politécnico (polytechnic), unidad (unit) or instituto (institute). Most universities and university institutions have the word universidad or universitaria in their name, but there are exceptions. All of these educational establishments can be either public or private. Post-secondary career paths are divided into technical, technological and university programs, each leading to a specific title. The National System of Information of Higher Education (Sistema Nacional de Información de Educación Superior or SNIES) maintains a searchable online database of information about all registered higher education institutions and programs (see References).

Since colonial times, higher education in Colombia has been based in major urban centres. The cities of Bogotá, Barranquilla, Cali and Medellín account for more than 75 per cent of all Colombian enrolments in higher education. Overall, in 2006 the country had 276 post-secondary institutions offering 11,838 programs (Cárdenas S., Rodríguez R., & Poveda, 2006). The total number of students enrolled in higher education that year reached 1,301,728, with over 70 per cent of them pursuing undergraduate studies at universities and university institutions (SNIES, 2007). Management, economics, law and engineering are still the most popular programs and account for half of all university enrolments.

Table 11. Higher Education Establishments in Colombia (April 2006)

<table>
<thead>
<tr>
<th>Type of Higher Education Establishment</th>
<th>Number of Higher Education Establishments</th>
<th>Public</th>
<th>Private</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional technical institutions</td>
<td></td>
<td>11</td>
<td>40</td>
<td>51</td>
<td>18%</td>
</tr>
<tr>
<td>Technological institutions</td>
<td></td>
<td>17</td>
<td>43</td>
<td>60</td>
<td>22%</td>
</tr>
<tr>
<td>University institutions and technological schools</td>
<td></td>
<td>22</td>
<td>68</td>
<td>90</td>
<td>33%</td>
</tr>
<tr>
<td>Universities</td>
<td></td>
<td>31</td>
<td>44</td>
<td>75</td>
<td>27%</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>81</td>
<td>195</td>
<td>276</td>
<td>100%</td>
</tr>
</tbody>
</table>

Source: Cárdenas S. et al., 2006, p. 11

Public and Private Institutions

Unlike at the secondary level, private post-secondary institutions do not necessarily hold more prestige or offer better education than public ones. For instance, the Universidad Nacional de Colombia, a public institution, has been consistently ranked as the country’s leading university. With a student population of more than 40,000 and seven campuses in different cities, the Universidad Nacional de Colombia is the country’s largest institution of higher education. Still, the number of places at state-run institutions of higher education is limited and about 70 per cent of post-secondary students attend private establishments. This statistic contrasts sharply with enrolments in elementary and secondary education, where approximately 70 to 80 per cent of students attend public schools (Uribe, 2006).

Fees

Tuition fees at Colombian post-secondary schools are assessed by semesters of study and vary greatly by institution and by program. For example, the privately owned Universidad de los Andes is known as a costly university. Medicine and dentistry tend to be the most expensive regardless of the institution.

The tuition per semester is frequently expressed in terms of the minimum monthly salary set by law. (As of January 2008, this amount is equal to Col$461,500 or approximately C$240.) The average tuition for one semester at a public university is generally less than one minimum monthly salary. Private universities can charge from six to over 20 times that amount. Admission to state-run post-secondary institutions is therefore highly competitive.

Academic Year

The academic year for higher education institutions generally consists of two academic periods (periodos académicos) or semesters (semestres), each approximately 16 weeks long. The first semester usually runs from January or February until May or June and the second one from July or August until November or December. Institutions can also offer an additional semester of study during the remaining months, or structure the academic year by trimesters (trimestres).
Administration

Colombian higher education institutions enjoy a high degree of autonomy guaranteed by Colombia’s political constitution. Each institution has the right to determine virtually every aspect of its operation, including the structure and content of the academic programs it offers. The role of the state is limited to ensuring the overall quality of higher education. The most important government bodies involved in higher education are:

- Ministry of National Education (Ministerio de Educación Nacional)—post-secondary education division headed by the Vice Minister of Higher Education (Viceministro de Educación Superior)
- ICFES—Colombian Institute for the Promotion of Higher Education (Instituto Colombiano para el Fomento de la Educación Superior)
- CESU—National Council of Higher Education (Consejo Nacional de Educación Superior)
- CNA—National Council of Accreditation (Consejo Nacional de Acreditación)
- CONACES—National Cross-Sector Commission for the Quality Assurance of Higher Education (Comisión Nacional Intersectorial de Aseguramiento de la Calidad de la Educación Superior, CONACES) has assisted the Ministry of National Education in verifying whether prospective institutions meet the required quality criteria. Prior to that date, ICFES fulfilled this function.
- ASCUN—Colombian Association of Universities (Asociación Colombiana de Universidades)

For a detailed breakdown of the administrative responsibilities of each agency, see Appendix C.

Educational Requirements for Instructors

The minimum educational requirement for higher education instructors is an undergraduate degree, but many instructors and professors have completed graduate-level studies, often specializing in university education. For more details, see the chapter on teacher education.

Recognition of Institutions and Programs

Licensing of Institutions (Compulsory)

The process of quality assurance in higher education begins with the licensing of individual educational establishments. The state, represented by the Ministry of National Education, must authorize the creation of all higher education institutions in Colombia. In order to be licensed to operate, prospective institutions must meet certain administrative, organizational and academic criteria. Successful candidates are then awarded their legal status (personería jurídica), which authorizes them to operate as a post-secondary institution. Since 2003, the National Cross-Sector Commission for the Quality Assurance of Higher Education (Comisión Nacional Intersectorial de Aseguramiento de la Calidad de la Educación Superior, CONACES) has assisted the Ministry of National Education in verifying whether prospective institutions meet the required quality criteria. Prior to that date, ICFES fulfilled this function.

Registration of Programs (Compulsory)

In addition to licensing individual establishments, as of September 2003 all programs leading to an academic title are required to obtain a qualified register (registro calificado), issued by the Ministry of National Education. Only programs with qualified registers are allowed to operate. The register is a form of obligatory certification based on careful evaluation of the contents and structure of the program by qualified assessors from the corresponding area. Programs that meet the minimum quality standards set by national legislation are issued a register for a period of seven years. The register is expressed as a code (código SNIES) and is often quoted as part of the information about the program. Originally, the number consisted of 21 digits, but as of 2006 it is composed of four to five digits. The ministry’s website provides updated lists of institutions that have not fulfilled this requirement for the programs they offer or that have not renewed their registers.

Prior to 2003, a similar procedure was in place for post-secondary programs. They had to be approved by ICFES and were similarly assigned a 21-digit code (código ICFES or registro ICFES) confirming their registration. In 2003, this responsibility was assigned to the Ministry of National Education, which is supported in this function by CONACES. The current registration process is stricter and is aimed directly at ensuring the quality of the programs offered as opposed to merely registering them without a more in-depth review, as was the case in previous years.
Teacher-Training Programs (Compulsory)

The General Law of Education of 1994 required all teacher-training institutions to obtain a special kind of registration for their programs called *acreditación previa* (previous accreditation) that was later recognized as the equivalent of the *registro calificado* (qualified register).

Accreditation of Programs (Voluntary)

The obligatory authorization to operate and offer programs should not be confused with accreditation, which is voluntary in Colombia. An institution can be fully authorized to offer a non-accredited program.

The National System of Accreditation (*Sistema Nacional de Acreditación*), headed by the CNA, was established in 1992. The details of the accreditation process—established after much research and numerous consultations with educational institutions, professional bodies and other experts—were outlined shortly thereafter. The accreditation of high quality (*acreditación de alta calidad*), also referred to as accreditation of excellence (*acreditación de excelencia*) or register of high quality (*registro de alta calidad*), represents official recognition of the high quality of a particular program. The process is rigorous and consists of several steps:

1. internal evaluation, commonly referred to as self-evaluation (*auto evaluación*), conducted by the institution soliciting accreditation according to the methodology set by the CNA
2. external evaluation, also called peer evaluation, conducted by expert academic assessors chosen by the CNA (results in a detailed report and possible recommendations for improvement)
3. response of the educational institution to the report and its recommendations
4. final evaluation by the CNA
5. granting of accreditation by the Ministry of National Education

Accreditation is awarded on a program-by-program basis, starting at the undergraduate level, for a period of four, six, eight or 10 years (or three to 10 years prior to December 2006). In practice, the period for which accreditation is awarded tends to be regarded as an indicator of quality in itself. Nevertheless, the CNA has contradicted this view and has emphasized the fact that the period takes into consideration the amount of time necessary for the institution to implement certain changes it has committed to. Until now, only 547 post-secondary programs have been accredited and 116 programs have received a renewal of their accreditation. Most of these programs are offered by universities and university institutions. The CNA maintains an updated list of all accredited programs on the council’s website.

Accreditation of Institutions (Voluntary)

The ultimate level of accreditation pertains to the entire institution (*acreditación institucional*) and is separate from the accreditation of individual programs. The process of institutional accreditation consists of the same steps as those outlined above, but the evaluation has a much broader scope and focuses on the organization, functioning and accomplishments of the institution as a whole. Naturally, the quality of programs offered is taken into consideration. Institutional accreditation is temporary and can be awarded for a period of four, seven or 10 years (or six to 12 years prior to December 2006). Currently, there are only 13 accredited institutions in Colombia. All of them are universities. The institutional accreditation process does not apply to the Universidad Nacional de Colombia, which was originally created as a model for other post-secondary institutions. The CNA website provides more details about the accredited institutions and the accreditation process.
TABLE 12. ACCREDITED HIGHER EDUCATION INSTITUTIONS IN COLOMBIA (AS OF MARCH 2008)

<table>
<thead>
<tr>
<th>TYPE</th>
<th>INSTITUTION</th>
<th>YEAR OF ACCREDITATION</th>
<th>PERIOD OF ACCREDITATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>Universidad de Antioquia</td>
<td>2003</td>
<td>9 years</td>
</tr>
<tr>
<td></td>
<td>Universidad del Valle</td>
<td>2005</td>
<td>8 years</td>
</tr>
<tr>
<td></td>
<td>Universidad Industrial de Santander</td>
<td>2005</td>
<td>8 years</td>
</tr>
<tr>
<td></td>
<td>Universidad Tecnológica de Pereira</td>
<td>2005</td>
<td>7 years</td>
</tr>
<tr>
<td></td>
<td>Universidad de Caldas</td>
<td>2007</td>
<td>4 years</td>
</tr>
<tr>
<td>Private</td>
<td>Universidad de los Andes</td>
<td>2005</td>
<td>9 years</td>
</tr>
<tr>
<td></td>
<td>Universidad EAFIT (Escuela de Administración y Finanzas y Tecnologías)</td>
<td>2003</td>
<td>6 years</td>
</tr>
<tr>
<td></td>
<td>Universidad Externado de Colombia</td>
<td>2004</td>
<td>7 years</td>
</tr>
<tr>
<td></td>
<td>Universidad del Norte</td>
<td>2003</td>
<td>7 years</td>
</tr>
<tr>
<td></td>
<td>Pontificia Universidad Javeriana</td>
<td>2003</td>
<td>8 years</td>
</tr>
<tr>
<td></td>
<td>Universidad Colegio Mayor de Nuestra Señora del Rosario</td>
<td>2005</td>
<td>6 years</td>
</tr>
<tr>
<td></td>
<td>Universidad de la Sabana</td>
<td>2006</td>
<td>4 years</td>
</tr>
<tr>
<td></td>
<td>Universidad Pontificia Bolivariana</td>
<td>2006</td>
<td>4 years</td>
</tr>
</tbody>
</table>

Although the Colombian state has so far assumed most of the expenses associated with the implementation of the National System of Accreditation, the cost that individual higher education institutions have to bear has prevented most from applying. For example, Universidad de Antioquia was among the first universities to seek accreditation of its programs. In the 1999 fiscal year, the resources allocated by the university to internal evaluation and further improvement of already accredited programs amounted to US$341,818.

Still, while it is true that accreditation is a costly undertaking in Colombia, the process can significantly benefit institutions. Apart from the social recognition and prestige gained through accreditation, CESU has established certain academic and economic incentives for accredited programs (for example, financial awards). Donors who make financial contributions to accredited programs are eligible for additional tax exemptions.

Types of Institutions

Professional Technical Institutions (Instituciones Técnicas Profesionales) and Technological Institutions (Instituciones Tecnológicas)

Professional technical institutions (instituciones técnicas profesionales) offer predominantly higher technical and vocational programs, with a strong practical orientation. Prior to 1992, these institutions were called intermediate professional institutions (instituciones intermedias profesionales).

Technological institutions (instituciones tecnológicas) offer a similar type of education, but the programs are more advanced and slightly longer.

The focus of the programs offered by both types of institutions tends to be on engineering, management and information technology.

All education delivered by professional technical and technological institutions must be structured according to the model of educational cycles (ciclos propedéuticos) described in the corresponding section following.
University Institutions (Instituciones Universitarias) and Technological Schools (Escuelas Tecnológicas)

University institutions (instituciones universitarias) and technological schools (escuelas tecnológicas) offer technical, technological and undergraduate education in a wide range of occupations and professions. Programs at both kinds of institutions provide students with a solid foundation in academic knowledge and research. Those offered at technological schools tend to focus on applied disciplines and typically do not include fine arts or humanities programs.

Currently, there are few technological schools in Colombia. Because of their small number and the many similarities shared with university institutions, technological schools are often grouped with the former into one single category of educational establishments.

Universities (Universidades)

Universities (universidades) represent the oldest type of post-secondary institution in Colombia and focus on transmitting traditional academic knowledge and professional training. The most important characteristic that sets the universities apart from other post-secondary institutions is the emphasis on research activities.

Colombian universities established prior to the 1950s enjoy particular prestige. Universities are also the only type of institutions in Colombia authorized to offer all kinds of programs and grant all academic titles up to the doctoral level.

The smaller organizational units that constitute a university are facultades (faculties), escuelas (schools or colleges) and departamentos (departments).

Other Institutions

Apart from the predominant types of establishments described above, some other institutions provide higher education:

- Post-secondary distance education institutions and programs are becoming increasingly common in Colombia. For example, Universidad Nacional Abierta y a Distancia is an institution dedicated solely to delivering distance and virtual education. It currently offers over 50 programs at various levels. Another example is Universidad Autónoma de Bucaramanga, which has created a special division to deliver online courses leading to university degrees. In Colombia, all titles obtained through distance education have the same validity as those awarded to students who physically attend an educational institution.

- Regional Centres of Higher Education (Centros Regionales de Educación Superior or CERES) are created in regions with limited or no physical access to higher education institutions. Currently, one hundred CERES throughout Colombia offer all kinds of post-secondary programs that target specific regional needs. The centres are defined as basic spaces equipped with telecommunication infrastructure sufficient to allow students to access distance learning programs offered by existent institutions of higher education. Most of the CERES operate out of a school classroom or a cultural centre. The post-secondary institution delivering the program issues the exit credential.

- Training centres administered by the National Apprenticeship Service (Servicio Nacional de Aprendizaje or SENA) can offer programs leading to the titles of professional technician and technologist in addition to numerous other vocational and apprenticeship programs.

- Special regime institutions (instituciones de régimen especial), which are mainly authorized military institutions, can provide all levels of post-secondary education.
Overview of Types of Programs and Qualifications

The benchmark credentials that can be earned upon completion of different higher education programs in Colombia are shown in the following table.

**TABLE 13. CLASSIFICATION OF COLOMBIAN HIGHER EDUCATION CREDENTIALS IN TERMS OF BOTH COLOMBIAN AND ALBERTAN EDUCATIONAL SYSTEMS**

<table>
<thead>
<tr>
<th>CLASSIFICATION IN ALBERTA</th>
<th>CREDENTIAL NAME</th>
<th>CLASSIFICATION IN COLOMBIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programs classified as post-secondary diploma</td>
<td>Técnico Profesional (Professional Technician) Tecnólogo (Technologist)</td>
<td>Programs classified as undergraduate</td>
</tr>
<tr>
<td>Programs classified as undergraduate</td>
<td>Profesional (Professional) Licenciado (Licentiate) Maestro (Master)</td>
<td></td>
</tr>
<tr>
<td>Programs classified as post-secondary diploma</td>
<td>Técnico Profesional Especialista (Specialist Professional Technician) Tecnólogo Especialista (Specialist Technologist)</td>
<td>Programs classified as graduate</td>
</tr>
<tr>
<td>Programs classified as graduate</td>
<td>Especialista (Specialist) Magíster (Master’s degree) Doctor (Doctor’s degree)</td>
<td></td>
</tr>
</tbody>
</table>

Note (in Table 13) the significant differences between how these qualifications are regarded in Colombia and in Canada. In Colombia, post-secondary programs are classified either as undergraduate (pregrado) or graduate (postgrado, also spelled as posgrado). The term “undergraduate” encompasses post-secondary diploma programs leading to the titles of professional technician and technologist as well as undergraduate degree programs. Another unique feature of the Colombian system is that specialization programs span all levels and can be pursued after obtaining any one of the initial credentials. All specializations are viewed as graduate programs.

In Canada, a clear distinction is made between post-secondary programs leading to a diploma and undergraduate programs leading to a degree. The definition of graduate-level programs is slightly different too, as it does not include technical or technological specializations. The rest of this chapter is structured around the Canadian interpretation of these credentials.

Post-secondary Diploma Programs (Technical)

Professional Technician (Técnico Profesional)

Professional technical education (formación técnica profesional) is generally imparted at professional technical institutions and leads to the title of professional technician (técnico profesional) in a specific area. Prior to 1992, this level of education was referred to as intermediate professional education (formación intermedia profesional) and concluded with the title of intermediate professional technician (técnico profesional intermedio).

This level of education aims to provide students with the vocational training necessary to successfully exercise a specific occupation. The majority of professional technical programs are associated with practical professions. No programs are offered in strictly humanistic areas. The curriculum is not academic in nature and does not involve any research. Rather, it focuses on hands-on skills and specialized theoretical knowledge.
Admission

In order to be admitted to a program at this level, prospective students must have obtained the title of bachiller and a specific number of points on the ICFES State Examination for Admission to Higher Education (Examen de Estado para Ingreso a la Educación Superior). Many post-secondary institutions also require applicants to pass an additional entrance exam and a personal interview. Students who have successfully completed basic education (that is, Grade 9), are at least 16 years old, have obtained a certificate of occupational or professional aptitude (Certificado de Aptitud Ocupacional/Profesional) from SENA, and have worked in the area of their specialization for a minimum of two years may also be admitted to professional technical programs.

Length of Program

Programs at this level are normally five or six semesters long.

Exit Credentials

Sample titles that graduates can obtain on completion of their program are:

- Técnico Profesional en Diseño de Máquinas (Professional Technician in Machine Design)
- Técnico Profesional en Comercio Internacional (Professional Technician in International Commerce)
- Técnico Profesional en Diseño Gráfico (Professional Technician in Graphic Design)

Some of the credentials commonly awarded on completion of this stream of education prior to the 1980s included these titles:

- Perito (after two to four semesters of study)
- Experto (after four to five semesters of study)
- Técnico (after six semesters of study)

Those who graduate as professional technicians can either continue their studies at the technological level or complete a post-secondary technical specialization in their field. The qualification of professional technician can also lead directly to employment.

Specialist Professional Technician (Técnico Profesional Especialista)

Professional technical specialization (especialización técnica profesional) programs allow students to explore a specific area of their field of study in greater detail. Specializations at this level are particularly common in finance, management, agriculture and technology-related professions. Prior to 1992, no specialization programs were offered at this level.

Admission

Students seeking admission to professional technical specialization programs must possess the title of professional technician.

Length of Program

The programs typically take two or three semesters.

Exit Credentials

At the end of the program, students are awarded the title of specialist professional technician, which may vary slightly in the way it is worded in Spanish. For example, the title of Specialist Professional Technician in Public Management could be expressed as:

- Especialista Técnico Profesional en Gestión Pública
- Técnico Profesional Especializado en Gestión Pública
- Técnico Profesional Especialista en Gestión Pública

After completing a professional technical specialization, most graduates enter the workforce.

Technologist (Tecnólogo)

Technological education (formación tecnológica) programs are offered predominantly at technological institutions (instituciones tecnológicas) and lead to the title of technologist (tecnólogo) in a specific area. Most programs focus on business, management, engineering technology and communications. The curriculum has stronger scientific and theoretical orientations than professional technical education and teaches students to design, implement and manage the processes of their professions.

Admission

Admission requirements for this level of education include possession of the title of bachiller and achievement of
a sufficient score on the ICFES State Examination for Admission to Higher Education. Alternatively, students with the title of técnico profesional in a related field can also seek admission to technological programs. Applicants are generally required to pass an additional admission examination and a personal interview administered by the post-secondary institution.

**Length of Program**

For students admitted to technological programs based on the title of bachiller, the programs typically last six semesters although some can last eight. After the introduction of educational cycles in 2002 (see following section), graduates from related programs at the professional technical level required an additional two to three semesters to obtain the title of tecnólogo.

**Exit Credentials**

Upon completion of their studies, graduates can obtain titles such as:

- **Tecnólogo en Ingeniería Industrial** (Industrial Engineering Technologist)
- **Tecnólogo en Informática y Telecomunicaciones** (Computer Technology and Telecommunications Technologist)
- **Tecnólogo en Administración de Empresas** (Business Administration Technologist)

The title of technologist allows students to pursue undergraduate studies, to complete a technological specialization in their field, and to seek employment.

**Specialist Technologist (Tecnólogo Especialista)**

Technological specialization (especialización tecnológica) programs allow students to further explore a particular aspect of their field of study, but in most cases they do not involve any extensive research. Specializations at this level pertain primarily to the areas of business management, commerce, finance, technology and communications.

**Admission**

Students seeking admission to technological specialization programs must possess the title of technologist.

**Length of Program**

The programs generally take two to four semesters of study.

**Exit Credentials**

At the end of the program, students are awarded the corresponding title of specialist technologist, which may vary slightly in the way it is worded in Spanish. For instance, the title of Specialist Technologist in Marketing could be expressed as:

- Especialista Tecnológico en Mercadeo
- Tecnólogo Especializado en Mercadeo
- Tecnólogo Especialista en Mercadeo

The completion of a technological specialization entitles the graduates either to seek employment at the appropriate level or to continue their studies. The combination of a technologist title plus a technological specialization is regarded in Colombia as comparable to an undergraduate degree.

**Educational Cycles (Ciclos Propedéuticos)**

Prior to 2002, the titles of professional technician and technologist were viewed as terminal qualifications leading to employment (with the exception of specialization programs). There was little connection between technical, technological and undergraduate programs, and the credit transfer practices between different institution types were not clearly defined, causing difficulties for students who wished to continue their education at a higher level without having to repeat several courses.

**FIGURE 4. ORGANIZATION OF COLOMBIAN DIPLOMA AND DEGREE PROGRAMS PRIOR TO 2002**

<table>
<thead>
<tr>
<th>Employment or Further Specialization</th>
<th>Employment or Further Specialization</th>
<th>Employment or Graduate Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post-secondary diploma programs (5–6 semesters)</td>
<td>Post-secondary diploma programs (6–8 semesters)</td>
<td>Undergraduate degree programs (8–10 semesters)</td>
</tr>
<tr>
<td>leading to the title of Técnico Profesional</td>
<td>leading to the title of Tecnólogo</td>
<td>leading to the titles of Profesional, Licenciado, Maestro and others</td>
</tr>
</tbody>
</table>
The educational cycles (ciclos propedéuticos) model was introduced in 2002 as a way of restructuring higher education in order to facilitate student mobility and make the system more flexible, sequential and permeable. The model consists of three cycles that focus on the acquisition of specific competencies. The completion of each cycle allows the student to obtain a title and either seek employment or continue with the next cycle leading to a higher qualification.

The first cycle corresponds to professional technical studies and concludes with the title of técnico profesional. The second cycle corresponds to technological education and leads to the title of tecnólogo. The third cycle corresponds to university-level studies and allows students to earn an undergraduate degree. In this way, the model of educational cycles combines diploma-level post-secondary education with degree-level undergraduate education.

**FIGURE 5.** ORGANIZATION OF COLOMBIAN DIPLOMA AND DEGREE PROGRAMS AFTER 2002

All technical professional and technological institutions are required to structure their programs in this way. Other higher education institutions are also encouraged to do so, but it is uncommon for traditional universities to follow this pattern, especially since the model would be difficult to implement in areas such as the humanities. Each educational cycle requires a separate registro calificado.

**Undergraduate Degree Programs**

Professional education (formación profesional) in Colombian terms is the equivalent of undergraduate education and is offered predominantly by universities and university institutions. In addition to area-specific courses, undergraduate curricula include a broad range of academic subjects.

Undergraduate degree programs are academically more challenging than technical or technological education and usually require students to complete a small research project (trabajo de grado or proyecto de grado) or a practicum (práctica) in the last semester of study.

Solid knowledge of a foreign language, typically English, is usually a requirement for graduation and must be demonstrated by passing an international language test such as TOEFL.

**Admission**

Admission requirements for this level of education include the title of bachiller and a sufficient score on the ICFES State Examination for Admission to Higher Education. Students with a title of tecnólogo in a related field can also seek admission to undergraduate degree programs. All applicants are generally required to pass an additional admission exam and a personal interview administered by the post-secondary institution.

Some students choose to complete a pre-university program preparing them for undergraduate studies and the ICFES State Examination for Admission to Higher Education. Such courses, however, are not entrance prerequisites, have no academic value, and do not offer students any privileges such as advanced placement.

**Length of Program**

For students admitted to undergraduate degree programs based on the title of bachiller, the duration of their studies typically ranges from eight to 10 semesters. Since the introduction of educational cycles in 2002, graduates from related technological programs require an additional three or four semesters to obtain an undergraduate degree.

Often the duration of a program is expressed in academic credits only. For sample program durations, refer to Appendix E.

**Exit Credentials**

Although an undergraduate degree in Colombia is normally referred to as a professional title (título profesional), the exact
name of the degree can vary depending on the discipline. Most titles can also end in an “a” instead of an “o,” indicating that the recipient of the credential is female. For example, an undergraduate student in law would be awarded the title of abogado if the student were male and abogada if the student were female. Similarly, the feminine version of tecnólogo would be tecnóloga. In other instances, the “a” is added on, as in administrador and administradora. Often, though, the masculine version of the title is used even when the credential is awarded to a female.

The four variations of Colombian undergraduate titles are summarized in Table 14. All of these degrees represent an equivalent credential and have the same academic and professional value.

### Table 14. Colombian Undergraduate Degrees

<table>
<thead>
<tr>
<th>Undergraduate Degree in…</th>
<th>Title Awarded</th>
<th>Time Period</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>a specific profession</td>
<td>Specific professional title e.g., Abogado (Lawyer)</td>
<td>Used currently and in the past</td>
<td>This is the most popular format of Colombian undergraduate titles.</td>
</tr>
<tr>
<td>a general field or discipline</td>
<td>Profesional en… + general area of study e.g., Profesional en Comercio Internacional (Professional in International Commerce)</td>
<td>Used from the early 1990s to the present</td>
<td>If there is no specific profession name associated with a particular field of study, the graduate is granted the title of professional (profesional) in the general area. Prior to the 1990s, the term licenciado was used instead of the term profesional for this type of degree.</td>
</tr>
<tr>
<td></td>
<td>Licenciado en… + general area of study e.g., Licenciado en Terapia Física (Licentiate in Physical Therapy)</td>
<td>Used prior to the early 1990s</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>Licenciado en… + area of education e.g., Licenciado en Educación Básica con Enfasis en Humanidades y Lengua Castellana (Licentiate in Basic Education with Focus on Humanities and Spanish Language)</td>
<td>Used currently and in the past</td>
<td>All undergraduate programs in education lead to the title of licenciado. Licentiates often indicate an area of focus (enfasis) within a particular stream of education. Education students can also be granted a licentiate in a specific subject like mathematics or biology, representing teacher training in that particular subject.</td>
</tr>
<tr>
<td>Arts</td>
<td>Maestro en… + area of the arts e.g., Maestro en Artes Plásticas (Master in Plastic Arts)</td>
<td>Used currently and in the past</td>
<td>Undergraduate programs in the arts lead to the title of maestro. This title should not to be confused with the upper secondary credentials of maestro, maestro bachiller or maestro superior. Another similar title is that of magíster, obtained after completion of a master’s program or maestría.</td>
</tr>
</tbody>
</table>
It is important to note that the word *título* (title) is not an essential part of the actual name of Colombian credentials. In fact, on the degree certificate, all undergraduate degrees can be preceded by phrases like:

- *título de* (title of) …
- *título profesional de* (professional title of)

Other undergraduate-level degrees and qualifications that were commonly used in the past are the designations of diplomado, doctor and egresado.

<table>
<thead>
<tr>
<th>TABLE 15. UNDERGRADUATE-LEVEL TITLES AND QUALIFICATIONS COMMON IN THE PAST</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TITLE OR QUALIFICATION AWARDED UPON COMPLETION OF…</strong></td>
</tr>
<tr>
<td>some undergraduate degree programs in general disciplines</td>
</tr>
<tr>
<td>some undergraduate degree programs especially in law, medicine and dentistry</td>
</tr>
<tr>
<td>coursework for undergraduate degree programs</td>
</tr>
</tbody>
</table>

After completing undergraduate studies, students can either enter the workforce or continue with graduate education leading to the titles of specialist, master or doctor.

**Graduate Degree Programs**

**Specialist (Especialista)**

Graduate-level specialization (*especialización profesional* or simply *especialización*) programs allow students who have completed their undergraduate studies to continue exploring a specific aspect of their area in greater detail. Specializations at this level are usual in professions associated with medicine, law and business administration. The biggest difference between specializations and other graduate programs is that the former usually do not require students to conduct any extensive research.

**Admission**

Students seeking admission to graduate-level specialization programs must possess an undergraduate degree in a related area of study.

**Length of Program**

The typical duration for general graduate-level specialization programs is two or three semesters. Specializations in health care professions may last up to 10 semesters. The most popular medical specializations and the typical program lengths are shown in Appendix F.

**Exit Credentials**

At the end of the program, students are awarded the title of specialist (*especialista*). Specialist titles include:

- *Especialista en Medicina Familiar* (Specialist in Family Medicine)
- *Especialista en Contabilidad Gerencial* (Specialist in Managerial Accounting)
- *Especialista en Derecho Comercial* (Specialist in Commercial Law)
The completion of a graduate-level specialization entitles students either to seek employment at the appropriate level or to continue with graduate studies. Those who choose to enter a program leading to the titles of master or doctor are not generally given any transfer credit for studies completed at the specialization level.

**Master (Magíster) and Doctor (Doctor)**

Enrolment in programs leading to the titles of master (magíster) and doctor (doctor) remains low in Colombia. In 2006, for instance, only one per cent of all the students pursuing post-secondary education were enrolled in master’s programs and only one-tenth of a per cent were enrolled in doctoral programs (SNIES, 2007). By the mid-1980s, the only institution to offer doctoral programs in Colombia was the Pontificia Universidad Javeriana. According to SNIES, as of December 2007, there were 610 master’s programs offered by 68 institutions and 104 doctoral programs offered by 23 institutions. In terms of curriculum, both programs require students to complete some coursework, but the primary emphasis is on research.

**Admission**

An undergraduate degree is the main prerequisite for admission to either program. A master’s degree is not a prerequisite for entrance into doctoral programs, but most students do complete one. Certain graduate programs also accept students on the basis of a technologist title plus a technological specialization, since in Colombia this combination is comparable to an undergraduate degree. Prospective students may also be required to pass an entrance examination administered by the faculty to which they are applying.

**Length of Programs**

Master’s programs are normally four semesters long. Doctoral programs last eight to 10 semesters if taken immediately after the undergraduate degree or an additional four to six semesters if taken after a master’s degree in the same field.

**Exit Credentials**

Master’s students must prepare and defend a comprehensive research project (trabajo de investigación) in order to graduate. An example of a master’s title would be Magíster en Administración (Master of Management). The feminine form of magíster, which is magístra, is not commonly used. After being awarded the title of magíster in a specific field, the graduates can either continue their studies at the doctoral level or seek employment.

Doctoral candidates are similarly required to complete and defend a thesis (tesis) that represents an original contribution to their field of study. An example of a doctoral title would be Doctor en Ciencias de la Educación (Doctor of Education Sciences). The title of doctor is the highest educational award in the Colombia education system.

**University-Level Education in Selected Professional Fields**

This section describes in greater detail university-level programs in accountancy, business administration, dentistry, engineering, law, medicine, nursing and physiotherapy.

**Admission**

The admission requirements for undergraduate programs in these professions are the same as for any other undergraduate program. Every student entering higher education must present the title of bachiller, obtain a sufficient score on the ICFES State Examination for Admission to Higher Education, and fulfill any additional requirements set by individual institutions and/or faculties.

**Program Structure**

Most undergraduate programs in the main professional fields require students to physically attend classes and participate in practica. Few of these programs are offered through distance education. In terms of courses, undergraduate programs in Colombia tend to consist of a large core component, obligatory for all students in the program, and a small number of elective courses. Great emphasis is also placed on practical application of skills and knowledge. Hence, laboratories and practica, which can have different durations for different professions, are an essential part of most undergraduate programs.

Given the general nature of undergraduate studies in
Colombia, students wishing to deepen their knowledge of a certain branch of their field of study usually opt for completing a specialization following their undergraduate degree. This is one of the main reasons why specializations are so common, particularly in medical and business-related fields. With the exception of medical specializations, the structure and duration of graduate programs in the professions described in this section are no different than they are for other disciplines (that is, two or three semesters). Most medical specializations last longer (up to 10 semesters).

The total number of courses and academic credits required to obtain a degree is determined by individual institutions. An undergraduate program in the same discipline can differ in duration and credit requirements at different institutions. Refer to Appendix E for examples. There are no legal norms as to the minimum or maximum number of academic credits required for a certain profession. All programs in a given field lead to the same title, which has equal academic and professional value.

**Professional Registration and Licensing**

Approximately 60 professions—including all of the ones described in this section—are regulated in Colombia and require graduates to obtain additional registration with the appropriate professional council (consejo profesional), board (junta) or ministry (ministerio). In these cases, an academic title alone does not entitle degree holders to practice their profession. They must first be issued a certificate of professional registration (certificado de matrícula profesional) and a wallet-sized professional license (tarjeta profesional), permitting them to exercise the profession. A sample certificate of professional registration is shown in the documentation chapter.

In order to obtain a professional license, applicants do not need to pass any additional examinations. Issuing of the license is simply a process through which degree holders register their qualification with the appropriate body. The councils also deal with professional malpractice complaints and in extreme cases can revoke a license. Appendix G contains a more detailed list of regulated professions in Colombia, and Appendix H provides additional information on the licensing bodies for the professions described in this section.

**Faculty Associations**

Faculty associations fulfill a crucial role in curriculum design for professional programs. Most of these associations have a decades-long history and bring together faculties providing higher education in a particular profession. Given the great autonomy of Colombian higher education institutions, the associations act as a forum in which the individual faculties can exchange ideas and determine the core components of the curricula. The faculty associations also played an important consultative role in the design of the Examinations of Quality of Higher Education (Exámenes de Calidad de la Educación Superior), commonly referred to as ECAES and described later in this chapter.

**Public Accountancy (Contaduría Pública)**

The profession of public accountant (contador público) is among the most popular in Colombia. In 2004, there were 76 faculties of public accountancy in the country. According to current SNIES statistics, there are about 250 undergraduate programs and several graduate-level specializations in accountancy. No master’s or doctoral degrees are offered. The two faculty associations in this field are the Colombian Association of Faculties of Public Accountancy (Asociación Colombiana de Facultades de Contaduría Pública) and the newer Colombian Network of Faculties of Public Accountancy (Red Colombiana de Facultades de Contaduría Pública).

Training in related occupations is also available at the professional technical and technological levels. Institutions offering lower technical and vocational education, described in the chapter on technical and vocational education, can offer accountancy-related training as well.

**Length of Program**

For students admitted to an undergraduate degree program in accountancy based on the title of bachiller, the program normally takes 10 semesters of full-time study to finish, although theoretically some programs could be completed in eight semesters. Since the introduction of educational cycles in 2002, graduates from related technological programs require an additional three or four semesters of study to obtain an undergraduate degree.
Curriculum

Few of the courses in undergraduate accountancy programs pertain to general academic knowledge. Most subjects focus on:

- mathematics and statistics
- economics
- management and organizations
- conceptual foundations of accountancy
- accounting and finances
- control and auditing
- legal regulations
- communication and humanities

Theoretical instruction in these subjects is usually complemented by practica.

Exit Credentials

After completing an undergraduate program in accountancy, the academic title that students graduate with is Contador Público or Contadora Pública (Public Accountant).

Length of Program

Most undergraduate programs in business administration require 10 semesters of full-time study, but there are some with a slightly shorter or longer duration. About 40 per cent (in 2004) of business administration students opt for evening programs (jornada nocturna), which give them the opportunity to work full-time while completing their degrees. Evening programs normally have the same total duration as daytime programs.

Since the introduction of educational cycles in 2002, students admitted to undergraduate degree programs based on the title of tecnólogo in a related area require an additional three or four semesters of study to obtain an undergraduate degree.

Curriculum

The courses that constitute the curriculum for undergraduate programs in business administration include:

- mathematics and statistics
- economics (for example, microeconomics, macroeconomics, political economics)
- management and organizations
- finance (for example, accounting, financial analysis, investments)
- production and operations (for example, production management, logistics, quality assurance)
- trade and marketing
- human resources management
- technology
- ethics, social responsibility and law
- communication and humanities.

Theoretical instruction in business administration subjects is usually complemented by a professional practicum that can last one or two semesters.

Exit Credentials

The academic title awarded to students who complete an undergraduate program in business administration is generally Administrador(a) de Empresas or Administrador(a) de Negocios (both translating to Business Manager or Administrator).
Dentistry (Odontología)
Currently, 19 institutions of higher education offer nearly 40 undergraduate programs and numerous graduate-level specializations in dentistry. There are currently no master’s or doctoral programs in dentistry.

The faculty association for this field is the Colombian Association of Faculties of Dentistry (Asociación Colombiana de Facultades de Odontología).

Training in dentistry-related occupations is also available at the professional technical and technological levels, although the number of programs is limited. Technical and technological programs in dental prosthetics (prótesis dental) and dental mechanics (mecánica dental) are the most popular. Institutions offering lower technical and vocational education, described in the chapter on technical and vocational education, can offer dentistry-related training as well.

Length of Program
Most undergraduate programs in dentistry take 10 semesters of full-time study to complete. Since the introduction of educational cycles in 2002, students can theoretically be admitted to undergraduate programs in dentistry based on the title of tecnólogo in a related area, in which case they would only require an additional three or four semesters of study to obtain an undergraduate degree. In practice, however, this rarely happens.

Curriculum
Undergraduate dentistry courses focus primarily on:
• basic sciences (for example, biology, histology, anatomy, pathology, physiology)
• pharmacology and therapeutic treatment
• public health
• ethics and bioethics
• rehabilitation
• growth and development
• periodontics
• endodontics
• orthodontics
• oral surgery

Theoretical lectures in the above subjects are complemented by laboratories and practica.

Exit Credentials
Upon completion of undergraduate studies in dentistry, students are awarded the title of Odontólogo or Odontologa (Dentist). Prior to the 1980s, some universities would grant the title of Doctor en Odontología (Doctor in Dentistry) to those who completed an undergraduate program in dentistry. Currently, the degree of doctor is strictly a graduate-level title.

Engineering (Ingeniería)
According to current SNIES statistics on university-level engineering education, there are 1,009 undergraduate programs, 106 graduate-level specialization programs, 66 master’s programs and 18 doctoral programs offered by various higher education institutions.

The faculty association for this area of study is the Colombian Association of Faculties of Engineering (Asociación Colombiana de Facultades de Ingeniería).

The branches of engineering most popular among Colombian students are:
• aeronautical (aeronáutica)
• agricultural (agrícola)
• agro-industrial (agroindustrial)
• agronomic (agronómica)
• chemical (química)
• civil (civil)
• electrical (eléctrica)
• electromechanical (electromecánica)
• electronic (electrónica)
• environmental (ambiental)
• fishing (pesquera)
• food (de alimentos)
• forestry (forestal)
• industrial (industrial)
• mechanical (mecánica)
• metallurgical (metalúrgica)
• naval (naval)
• nuclear (nuclear)
• petroleum (de petróleos)
• systems (de sistemas)
• telecommunications (de telecomunicaciones)
• transport and roads (de transporte y vías)
Training in engineering technology is also available at the professional technical and technological levels. Institutions offering lower technical and vocational education, described in the chapter on technical and vocational education, can also offer training related to engineering technology.

Length of Program
The majority of undergraduate engineering programs last 10 semesters of full-time study, but can be somewhat shorter or longer. Since the introduction of educational cycles in 2002, students admitted to undergraduate degree programs based on the title of tecnólogo in a related area require an additional three or four semesters of study to obtain an undergraduate degree.

Curriculum
Undergraduate engineering curricula are constructed around the following general areas, which are adapted accordingly to each of the branches:
- basic sciences
- basic engineering sciences (that is, theoretical foundations of engineering)
- practical applications of engineering concepts
- problem solving
- planning, modelling and design
- implementation
- evaluation
- project management

Laboratories and practica complement theoretical lectures in the above subjects.

Exit Credentials
The academic title awarded to students who complete an undergraduate program in engineering is Ingeniero or Ingeniera (Engineer) in a specific branch (for example, Ingeniero de Petróleos (Petroleum Engineer) or Ingeniera Industrial (Industrial Engineer)).

Law (Derecho)
Ever since colonial times, law has been one of the professions traditionally taught at Colombian universities. The most recent SNIES statistics on university-level education in law report 183 undergraduate programs, 566 graduate-level specialization programs, 28 master’s programs and five doctoral programs offered throughout Colombia.

The faculty association for this area of study is the Colombian Association of Faculties of Law (Asociación Colombiana de Facultades de Derecho).

Training in related occupations is also available at the professional technical and technological levels. Institutions offering lower technical and vocational education, described in the chapter on technical and vocational education, also offer law-related training.

Length of Program
Undergraduate programs in law require 10 semesters of full-time study to complete. Since the introduction of educational cycles in 2002, students admitted to undergraduate degree programs based on the title of tecnólogo in a related area require an additional three or four semesters of study to obtain an undergraduate degree.

Curriculum
Undergraduate law courses focus on:
- general theory of law
- constitutional law
- administrative law
- international law
- occupational law
- civil and family law
- commercial law
- penal law
- professional responsibility
- humanities (for example, philosophy, political history, history of law, sociology)

Theoretical lectures in the above subjects are complemented by practica. In the last year of study, students are usually required to pass preparatory exams (exámenes preparatorios), which test their knowledge of various branches of law.

Exit Credentials
Undergraduate law studies lead to the academic title of Abogado or Abogada (Lawyer). Prior to the 1980s, some universities granted the title of Doctor en Derecho (Doctor in Law) to those who completed an undergraduate program in law. Now, the degree of doctor is strictly a graduate-level title.
**Medicine (Medicina)**

Currently, Colombia has 53 faculties of medicine spread throughout the country.

The faculty association for this field is the Colombian Association of Faculties of Medicine (Asociación Colombiana de Facultades de Medicina), which provides detailed information about Colombian medical schools and the programs they offer. The association also ensures that medical training in Colombia conforms to international standards.

Training in health-related occupations is also available at the professional technical and technological levels, although the number of these programs is limited. Institutions offering lower technical and vocational education, described in the chapter on technical and vocational education, offer training in assistant health occupations.

**Length of Program**

Students can be admitted to undergraduate programs in medicine based on the title of bachiller. There are no technological programs in general medicine that might lead to this degree.

Undergraduate medical programs take 12 semesters of full-time study. Following 10 semesters of theoretical instruction and clinical practica, medical students complete two semesters of rotation-based internship at a designated clinic or hospital.

**Curriculum**

The undergraduate medical curriculum is designed to provide students with general knowledge of the relevant sciences, medical disciplines, and methods of diagnosis and treatment. Individual courses during the initial 10 semesters of the program are structured around:

- basic sciences (for example, biochemistry, microbiology)
- children’s health (pediatrics)
- women’s health (including gynecology and obstetrics)
- adult health
- seniors’ health (geriatrics)
- family health
- preventive medicine
- general surgery
- public health and environment
- ethics and bioethics
- legal–medical framework
- administration and management

Laboratories and clinical practica complement theoretical lectures in the above subjects.

Semesters 11 and 12 consist of a clinical internship based on rotations in specialized areas such as emergencies, anesthesia, orthopedics, internal medicine, general surgery, pediatrics, gynecology and obstetrics, and so on. The internship is viewed as an integral part of the undergraduate program.

The knowledge and skills acquired through the theoretical instruction, clinical practica, and internships are designed to train general physicians; they allow for little specialization. However, numerous graduate-level specialization programs, similar to Canadian residency programs, are available. As an example, the Faculty of Medicine of the Universidad Colegio Mayor Nuestra Señora del Rosario reports that 92 per cent of its students who graduate with a medical degree pursue a specialization. The university currently offers 26 specializations in all medical fields and 32 specializations in health administration. The most popular medical specializations in Colombia and their average durations are listed in Appendix F. Master’s and doctoral degrees in medical fields are not common.

**Exit Credentials**

The academic title students are granted after completing their undergraduate studies in medicine can be expressed as:

- **Médico** (Physician)
- **Médico General** (General Physician)
- **Médico Cirujano** (Physician Surgeon)
- **Médico y Cirujano** (Physician and Surgeon)

All four titles are equivalent and are granted upon completion of similar programs of study. The feminine version of the title—**Médica**—does exist but is rarely used. Prior to the 1980s, some universities would grant the title of **Doctor en Medicina** (Doctor of Medicine) to those who completed an undergraduate program in medicine. Currently, the degree of **doctor** is strictly a graduate-level title.
Nursing (Enfermería)
According to current SNIES statistics on university-level nursing education, 55 undergraduate and 36 graduate-level specialization programs are offered throughout Colombia. Master’s and doctoral degrees in nursing are not common; as of 2007, only four master’s and one doctoral program were offered.

The faculty association for this area of study is the Colombian Association of Faculties of Nursing (Asociación Colombiana de Facultades de Enfermería).

Training in nursing-related occupations is also available at the professional technical and technological levels, although the number of these programs is limited. Institutions offering lower technical and vocational education, described in the chapter on technical and vocational education, offer training in assistant health occupations as well.

Length of Program
Undergraduate nursing programs require eight to 10 semesters of full-time study. Since the introduction of educational cycles in 2002, students can be admitted to undergraduate programs in nursing based on the title of tecnólogo in a related area, in which case they would require an additional three or four semesters of study to obtain an undergraduate degree. In practice, however, this rarely happens.

Curriculum
The undergraduate nursing curriculum includes subjects from these areas:
- basic sciences (for example, biology, microbiology and parasitology, biochemistry, morphophysiology, pharmacology and toxicology, pathology, anatomy)
- clinical sciences (for example, internal medicine, general surgery, psychiatry, dermatology, ophthalmology, orthopedics and traumatology)
- psycho-social and cultural aspects of health care
- health care for children and adolescents
- health care for women (including gynecology and obstetrics)
- health care for adults and seniors
- preventive medicine and public health
- historical, legal and ethical development of nursing
- foundations of research and epidemiology
- administration, management and education (for example, law, policies, programs)

Laboratories and practica complement theoretical lectures in the above subjects.

Exit Credentials
The academic title students are granted upon completion of their undergraduate studies is Enfermera (nurse, feminine form) or the less common Enfermero (masculine form). Some universities choose to use the title Profesional en Enfermería (Professional in Nursing) instead.

Physiotherapy (Fisioterapia)
The most frequently used name for physiotherapy in Spanish is fisioterapia, but it can also be referred to as terapia física (physical therapy). The Escuela Colombiana de Rehabilitación developed the first physiotherapy program in Colombia in 1952. The most recent SNIES statistics on university-level education in physiotherapy report 34 undergraduate programs offered by various Colombian institutions of higher education. Although there are several related graduate-level specialization programs, there are currently no programs in physiotherapy at the master’s or doctoral level.

The faculty association for this field is the Colombian Association of Faculties of Physiotherapy (Asociación Colombiana de Facultades de Fisioterapia).

Training in physiotherapy-related occupations is also available at the professional technical and technological levels, although the number of these programs is limited. Institutions offering lower technical and vocational education, described in the chapter on technical and vocational education, offer training in assistant health occupations.

Length of Program
The typical duration of an undergraduate program in physiotherapy is eight to 10 semesters of full-time study. Since the introduction of educational cycles in 2002, students can be admitted to undergraduate programs in physiotherapy based on the title of tecnólogo in a related area, in which case they would require an additional three or four semesters of study to obtain an undergraduate degree. In practice, however, this rarely happens.
Curriculum
The core of the undergraduate curriculum in physiotherapy focuses on:

- basic sciences (for example, biology, biochemistry, biophysics, psychology, anatomy, physiology)
- health, movement and functioning of the human body
- sports and recreation
- occupational health
- research and education
- administration and management

Laboratories and practica complement theoretical lectures in the above subjects.

Exit Credentials
Undergraduate studies in physiotherapy lead to the academic title of Fisioterapeuta or its less common version Terapeuta Físico/a (both translating to physiotherapist).

Grading Scales and Academic Credits

Grading Scales
The grading scale for higher education has been relatively standardized and universally implemented by all types of Colombian post-secondary institutions for several decades.

<table>
<thead>
<tr>
<th>NUMERICAL GRADE</th>
<th>DESCRIPTION AND COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.60 – 5.00</td>
<td>Excellent; maximum grade</td>
</tr>
<tr>
<td>4.00 – 4.59</td>
<td>Very good</td>
</tr>
<tr>
<td>3.50 – 3.99</td>
<td>Good</td>
</tr>
<tr>
<td>3.00 – 3.49</td>
<td>Sufficient; lowest passing grade</td>
</tr>
<tr>
<td>0.00 – 2.99</td>
<td>Failing grade</td>
</tr>
</tbody>
</table>

To pass a course, students must obtain a minimum average of 3.00. Otherwise, they are required to take a make-up examination (exámen de habilitación); this would be indicated on their academic transcript.

Only a few institutions choose to use a different evaluation method. For instance, Universidad Católica de Colombia uses a 10-point scale, with 6 as the lowest passing grade. Universidad Pedagógica Nacional uses a 50-point scale, with 30 as the lowest passing grade.

Credit System
Coursework completed by students is measured according to the credit system introduced in 2003. One academic credit (crédito académico) is equal to 48 hours of academic work, consisting of 16 hours of lectures and 32 hours of independent study at the undergraduate and specialization levels. At the master’s level, the 48 hours would correspond to 12 hours of lectures and 36 hours of independent study. For doctoral programs, the distribution of hours is determined by the nature of each program. In other words, students are expected to follow up every hour of classroom instruction with an additional two or three hours of independent work, depending on the level.

Given the great autonomy that Colombian institutions of higher education enjoy, the total number of credits required for graduation varies between fields of study and institutions. Specific programs often differ in duration and credit requirements between different institutions. For examples, see Appendix E. All exit credentials have equal academic value regardless of the actual program duration or number of credits.

In the years 1980 to 2003, academic programs were measured in units of academic work (unidades de labor académico) or ULA. One ULA represented one hour of class time, supplemented by two hours of practical application and three hours of independent work under direct supervision. The total number of ULAs required for graduation differed by type of post-secondary education. Although the ULA system was made obligatory in 1980, Colombian institutions were slow to implement it and many continued to use credit hours and number of years of study to describe programs.

<table>
<thead>
<tr>
<th>PROGRAM TITLE</th>
<th>NUMBER OF ULAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Técnico Profesional</td>
<td>1400</td>
</tr>
<tr>
<td>Tecnólogo</td>
<td>2100</td>
</tr>
<tr>
<td>Tecnólogo Especialista</td>
<td>900 (in addition to the 2100)</td>
</tr>
<tr>
<td>Profesional</td>
<td>3200</td>
</tr>
<tr>
<td>Especialista</td>
<td>600 (in addition to the 3200)</td>
</tr>
<tr>
<td>Magíster</td>
<td>800 (30% must be in research)</td>
</tr>
<tr>
<td>Doctor</td>
<td>800 (40% must be in research and independent work)</td>
</tr>
</tbody>
</table>
A recent Latin American initiative is to develop a regional academic credits system (Sistema de Créditos Académicos or SICA) and a descriptive complement to the academic title (Complemento al Título or CAT) based on the European diploma supplement model. It is expected that the whole Latin American region will eventually adopt both tools.

**Examinations and Exit Credentials**

**Examinations**

Most students enrolled in the last year of their undergraduate program must take the national Examination of Quality of Higher Education (Examen de Calidad de la Educación Superior), commonly referred to as ECAES and administered by ICFES. It is important to point out that individual ECAES scores have no direct impact on whether or not a student is awarded his or her degree. Graduation and the award of the academic title depend strictly on internal evaluations conducted by the institution of higher education.

The content of the ECAES differs depending on profession, but overall, the exam focuses on the basic competencies in each profession and consists of approximately 220 multiple-choice questions. (The exact number of questions can differ for certain professions; for example, on the 2007 exams, engineers were given 180 questions, lawyers 230 and psychologists 245 to 260.) The exam is offered twice a year in all major cities.

Education authorities, primarily ICFES, in close consultation with the faculty associations, professional councils and other stakeholders, originally developed the tests. In the process of designing the ECAES, similar exams conducted by foreign higher education authorities and licensing bodies were taken into consideration. The ECAES was administered for selected university programs in 2002 and became mandatory by 2003. The range of programs in which the examination was administered was gradually expanded to include even five non-university programs. SNIES reports that in 2006 a total of 77,589 students from 55 programs took the examinations.

Students can verify their ECAES scores through the ICFES website. A sample of the score summary is shown in the documentation chapter. The ECAES scores are generally high at public national universities and some private elite universities. Overall, the exam represents another measure of quality assurance and state supervision over the higher education system. The primary objective of the tests is to assess the quality of programs rather than individuals. Still, students who obtain the highest ECAES scores in their field enjoy certain privileges, such as priority in the award of various scholarships and funding for further studies. More information about ECAES is available on the ICFES website.

**Exit Credentials**

Depending on the level of study and the institution granting the title, students can be awarded one of the academic credentials shown in Table 18.
### Table 18. Academic Titles That Can Be Awarded by Particular Types of Higher Education Institutions

<table>
<thead>
<tr>
<th>INSTITUTION TYPE</th>
<th>TITLES THE INSTITUTION CAN AWARD</th>
<th>ENGLISH TRANSLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional technical institutions</td>
<td>Técnico Profesional en… Técnico Profesional Especialista en… *Tecnólogo en… *Tecnólogo Especialista en… *Profesional en…</td>
<td>Professional Technician in… Specialist Professional Technician in… Technologist in… Specialist Technologist in… Professional in…</td>
</tr>
<tr>
<td>Technological institutions</td>
<td>Técnico Profesional en… *Técnico Profesional Especialista en… Tecnólogo en… Tecnólogo Especialista en… *Profesional en…</td>
<td>Professional Technician in… Specialist Professional Technician in… Technologist in… Specialist Technologist in… Professional in…</td>
</tr>
</tbody>
</table>

* Theoretically, these institutions are authorized to award the titles marked with an asterisk, provided that the institution and its programs meet certain criteria. In practice, however, this rarely occurs.

Note that on the actual diploma certificate, all higher education credentials (not only undergraduate degrees) can be preceded by phrases like the following:

- *título de (title of)* …
- *diploma de (diploma of)*
- *grado de (degree of)*

Most titles listed in this chapter can also end in an “a” instead of an “o,” indicating that the recipient of the credential is female. For example, an undergraduate student in law would be awarded the title of *abogado* if the student were male and *abogada* if the student were female. Similarly, the feminine version of *tecnólogo* would be *tecnóloga*. In other instances, the “a” is added on, as in *administrador* and *administradora*. Often, though, the masculine version of the title is used even when the credential is awarded to a female.

The set of documents that students receive on completion of higher education programs is the same as the set received at the upper secondary level. It consists of a diploma stating the title obtained, a graduation record and an academic transcript showing the results for all semesters of study. The appearance and format of post-secondary documentation also resemble the appearance and format of upper secondary school credentials. Samples of higher education documents are shown and described in the documentation chapter.
Technical and Vocational Education

Technical and vocational programs in Colombia fall into one of two categories.

1. **Higher technical and vocational programs**: These programs are taught at the post-secondary level and have already been described in the chapter on higher education. They are part of formal education and lead to the titles of professional technician (técnico profesional) or technologist (tecnólogo).

2. **Lower technical and vocational programs**: The second kind of technical and vocational programs falls into the category of education for employment and human development (educación para el trabajo y el desarrollo humano), formerly known as non-formal education. This type of training leads to certificates, which are not considered equivalent to academic titles. They are often referred to as programas de formación laboral (literally, vocational training programs).

**FIGURE 6. TECHNICAL AND VOCATIONAL EDUCATION IN COLOMBIA**

<table>
<thead>
<tr>
<th>TECHNICAL AND VOCATIONAL EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher technical and vocational programs</td>
</tr>
<tr>
<td>leading to academic titles at the level of professional technician or technologist (formal education)</td>
</tr>
<tr>
<td>Lower technical and vocational programs</td>
</tr>
<tr>
<td>leading to certificates of occupational aptitude (certificados de aptitud ocupacional) or CAOs at the level of technician, assistant, operator, and so on (education for employment and human development, previously known as non-formal education)</td>
</tr>
</tbody>
</table>

Administration

In the past, lower technical and vocational training programs were not as strictly regulated as was formal education. Currently, the Ministry of National Education, along with the Ministry of Social Protection and the National Apprenticeship Service, is working on developing a more detailed legislative framework for the lower technical and vocational programs.

The National Apprenticeship Service (Servicio Nacional de Aprendizaje or SENA), a public organization that works in close cooperation with other relevant ministries and the private sector, is the main body in charge of policy development and the delivery of this type of education on the national level. For a detailed listing of the various bodies involved in education for employment and human development, and of their responsibilities, refer to Appendix C.

Recognition of Institutions and Programs

**Licensing of Institutions (Compulsory)**

The licensing and quality assurance procedures in lower technical and vocational education are a slightly simplified version of the measures and processes employed in higher education.

Because they are founded and operated by the state, SENA training centres and other public institutions are automatically licensed to operate at the time of their establishment. All private institutions offering lower technical and vocational education must obtain an official license to operate (licencia de funcionamiento) prior to the start of educational activities. The authorization comes in the form of an official administrative record (acto administrativo), issued to the institution by the departmental, district or municipal Secretariat of Education (Secretaría de Educación).

**Registration for All Programs (Compulsory)**

In addition to the institution itself, each lower technical and vocational program must also be registered with the local Secretariat of Education. The registration (registro) is valid for five years and must be renewed thereafter.

Lower technical and vocational programs in assistant health professions, including programs in dental mechanics and cosmetology, require additional authorization of the National Executive Committee for Development of Human Resources in Health (Comité Ejecutivo Nacional para el Desarrollo de los Recursos Humanos en Salud), which is part of the Ministry of Social Protection and is represented regionally by the Secretariats of Health (Secretarías de Salud).
Certification of Programs (Voluntary)

Currently, SENA is developing a System for Quality Education for Employment (Sistema de Calidad de la Formación para el Trabajo or SCAF) that will serve as a mechanism for the development and assurance of the quality of lower technical and vocational education.

Apart from the obligatory authorization to operate and offer programs, institutions providing this type of education may also obtain a certification of quality (certificación de calidad), similar to the accreditation of programs and institutions of formal higher education. This type of certification will be voluntary and granted on a temporary basis. The certification process will consist of an external evaluation conducted by a qualified third party.

Types of Institutions

Institutions offering lower technical and vocational education can be either public or private. In Spanish, names of these institutions frequently include the words centro (centre), instituto (institute), escuela (school), corporación (corporation) or fundación (foundation).

Public

Most lower technical and vocational institutions, officially classified as centres of professional training (centros de formación profesional), are public and are administered by SENA. As of 2007, SENA had 33 regional headquarters and 115 training centres throughout Colombia.

Detailed information about the centres and listings of the programs they offer can be found on SENA’s website. All of these programs are developed in close consultation with the private sector, and target regional needs. Since SENA is a public body, all training provided to its students is free of charge.

Private

The largest private institutions offering lower technical and vocational education are affiliated with the National Association of Entities of Education for Employment and Human Development (Asociación Nacional de Entidades de Educación para el Trabajo y el Desarrollo Humano). They are listed on the association’s website and include establishments such as Instituto Colombiano de Aprendizaje (INCAP), Academia Nacional de Aprendizaje, and Fundación CESDE. All private institutions charge tuition fees.

Types of Programs and Qualifications

The primary aim of lower technical and vocational programs is to train and certify students in particular trades or skills.

Admission requirements vary by program and are determined by individual institutions. Normally, individuals entering lower technical and vocational education are required to have completed either elementary (Grade 5) or lower secondary (Grade 9) education. Certain programs may require the title of bachiller for admission.

The length of lower technical and vocational programs is generally expressed in hours. According to Colombian legislation, programs of this kind must last at least 600 hours, with a minimum of 50 per cent of the time dedicated to practical training (etapa productiva, literally the productive stage), even if the program is taught through distance education. The remaining time is spent on specialized theoretical instruction (etapa lectiva, literally the lecture stage). The programs can be offered as daytime, evening or distance education and may last up to three years. Although it is not a widespread practice, some upper secondary schools may also allow their students to earn certain vocational designations concurrently with the bachiller title.

In terms of curriculum, lower technical and vocational programs frequently take the form of an apprenticeship, combining theoretical knowledge with hands-on training in the private sector. Most tend to focus on non-academic vocational training in various occupations in agriculture, office administration, business, computer technology, health care, teaching and other fields. The skills acquired through these programs and the designations awarded after their completion must be consistent with the recently updated Colombian National Occupational Classification (Clasificación Nacional de Ocupaciones).

The exit qualification for lower technical and vocational programs is a certificate of occupational aptitude (certificado de aptitud ocupacional or CAO), formerly referred to as certificate of professional aptitude (certificado de aptitud
There are several officially legislated types of CAOs. The most common type certifies the individual as a technician and is described in detail in the section on technical CAO programs. The second type of CAO is less common and is granted to students completing more academically oriented upgrading programs. For a more detailed description of the latter type of CAO, refer to the section on academic upgrading and other programs in this chapter.

**Technical CAO Programs**

Most lower technical and vocational programs are offered by SENA as well as some private establishments. The institutions providing this type of training are spread throughout Colombia, thus making lower technical and vocational training more accessible to those residing in the rural areas.

**Admission**

Typically, individuals entering lower technical and vocational education are required to have completed lower secondary school (that is, Grade 9). Certain programs may have lower or higher requirements.

**Length of Program**

The most common CAO programs leading to the qualification of técnico (technician) require between 1,000 and 1,800 hours to complete.

**Curriculum**

Most technical CAO programs have the form of an apprenticeship, combining basic theoretical knowledge with hands-on training in the private sector.

**Exit Qualifications**

Prior to July 2007, the type of CAO leading to the qualification of técnico (technician) was called Certificado de Técnico en ... (Certificate of Technician in ...). Currently, the certificate is known as Certificado de Técnico Laboral por Competencias en ... (Certificate of Occupational Technician with Competencies in ...).

| TABLE 19. SAMPLE NAMES OF TECHNICAL CAO QUALIFICATIONS PRIOR TO AND AFTER JULY 2007 |
|-------------------------------------------------|-------------------------------------------------|
| **SAMPLE NAMES OF TECHNICAL CAO QUALIFICATIONS PRIOR TO JULY 2007** | **SAMPLE NAMES OF TECHNICAL CAO QUALIFICATIONS AFTER JULY 2007** |
| Técnico en Electrónica (Technician in Electronics) | Técnico Laboral por Competencias en Electrónica (Occupational Technician with Competencies in Electronics) |
| Técnico en Diseño de Modas (Technician in Fashion Design) | Técnico Laboral por Competencias en Diseño de Modas (Occupational Technician with Competencies in Fashion Design) |
| Técnico en Desarrollo de Multimedia (Technician in Multimedia Development) | Técnico Laboral por Competencias en Desarrollo de Multimedia (Occupational Technician with Competencies in Multimedia Development) |
| Técnico en Mercadotecnia, Publicidad y Ventas (Technician in Marketing, Publicity and Sales) | Técnico Laboral por Competencias en Mercadotecnia, Publicidad y Ventas (Occupational Technician with Competencies in Marketing, Publicity and Sales) |
| Técnico Operador de Maquinaria Pesada (Operator Technician of Heavy Machinery) | Técnico Laboral por Competencias Operador de Maquinaria Pesada (Operator Occupational Technician with Competencies in Heavy Machinery) |

It is important to point out the difference between the qualification of técnico or técnico laboral por competencias and the academic title of técnico profesional. While the first two are names of lower technical and vocational qualifications (prior to and after July 2007), the title of técnico profesional applies only to graduates from programs of formal higher education.

Individual institutions internally administer all final examinations for CAO programs. There are no state-administered tests in lower technical and vocational education.

Technical CAO holders generally enter the workforce directly and do not require any professional licensing or registration. CAOs obtained from duly authorized institutions can also be recognized by institutions of formal higher education, thus allowing individuals to continue their studies at the professional technical and technological levels.
CAO Programs in Health Professions

Lower technical and vocational programs in the assistant health occupations are more strictly regulated than the rest of lower technical and vocational education. For example, medical programs at this level must be reviewed and approved not only by a regional Secretariat of Education but also by a Secretariat of Health, both acting on behalf of the respective ministries. A listing of all programs in assistant health professions that have been authorized to operate (programas con concepto favorable) is available on the website of the Ministry of Social Protection. As of May 2006, there were 862 approved programs in 18 occupations operating throughout Colombia, with nursing assistant programs having the highest enrolments. Schools attached to hospitals or clinics offer many of these programs.

Admission

The admission requirement for all lower technical and vocational programs in assistant health occupations is typically completion of Grade 9 (that is, lower secondary education).

Length of Program

The average length of these programs has always ranged from 1,000 to 1,800 hours. As of 2007, the duration has been fixed at 1,600 to 1,800 hours, spread over a period no longer than 18 months.

Curriculum

The curricula for all lower technical and vocational programs have a strong practical orientation. For the assistant health professions, 40 per cent of the training time is spent on theoretical instruction and 60 per cent on rotation-based practica at hospitals or clinics.

Exit Qualifications

Graduates from assistant health programs are awarded a CAO. Their exit qualifications are summarized in Table 20.

All final examinations for CAO programs are administered internally by individual institutions. There are no state-administered tests in lower technical and vocational education.

Those who graduate with a CAO in an assistant health profession must have their certificate inscribed in a regional register at the local Secretariat of Health before they can start practicing. CAOs obtained from duly authorized institutions can also be recognized by institutions of formal higher education, thus allowing individuals to continue their studies at the professional technical and technological levels.
Special Nomenclature for Programs Offered by SENA

The nomenclature that SENA uses for its technical and vocational programs as well as the admission requirements can vary slightly and is summarized in Table 21. SENA-administered centres are also the only institutions providing lower technical and vocational training that are allowed to grant the academic titles of professional technician and technologist. Samples of SENA credentials are shown and described in the documentation chapter.

**TABLE 21. TYPES OF TITLES AND CERTIFICATES AWARDED BY SENA**

<table>
<thead>
<tr>
<th>TYPE OF PROGRAM</th>
<th>TYPE OF TITLE OR CERTIFICATE</th>
<th>AVERAGE PROGRAM DURATION IN HOURS</th>
<th>COMPETENCY LEVEL*</th>
<th>TYPICAL ADMISSION REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher (formal education) technical and vocational programs**</td>
<td>Title of Technologist (Tecnólogo)</td>
<td>2,800 – 3,520</td>
<td>3 – 4</td>
<td>Completion of Grade 11 (title of bachiller)</td>
</tr>
<tr>
<td></td>
<td>Title of Professional Technician (Técnico Profesional)</td>
<td>2,000 – 2,640</td>
<td>2 – 3</td>
<td>Completion of Grade 9 or SENA CAO</td>
</tr>
<tr>
<td>Lower technical and vocational programs</td>
<td>SENA CAO as Technician (Técnico)</td>
<td>1,760 – 2,000</td>
<td>2</td>
<td>Completion of Grade 9</td>
</tr>
<tr>
<td></td>
<td>SENA CAO as Qualified Worker (Trabajador Calificado), Assistant (Auxiliar), Operator (Operario), or Helper (Ayudante)</td>
<td>880 – 1,760</td>
<td>1 – 2</td>
<td>Completion of Grade 5</td>
</tr>
</tbody>
</table>

* On a scale of 1 to 4, 1 indicates the lowest and 4 the highest level of competency within technical and vocational education. SENA does not provide any definitions of the levels.

** For a description of these programs, refer to the chapter on higher education.
Academic Upgrading and Other Programs

Institutions providing lower technical and vocational training sometimes also offer non-formal academic education programs (programas de formación académica). These programs can focus on a broad range of subjects such as foreign languages, sciences, mathematics, sports, technology and arts. Formerly, another type of CAO program existed, specializing in community development.

Some of these programs seek to prepare students for official validation of their skills and knowledge corresponding to academic credentials and levels of achievement in formal education. Although these programs transmit academic knowledge, they do not automatically lead to academic titles. The certificate awarded to students upon completion of such programs is also a type of CAO.

The exact names of the certificates changed slightly in 2007, as Table 22 shows.

Table 22. Types of CAOs Pertaining to Academic Upgrading and Community Development

<table>
<thead>
<tr>
<th>PRIOR TO JULY 2007</th>
<th>AFTER JULY 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificado de Conocimientos Académicos (Certificate of Academic Knowledge)—awarded after completing an academic program with a minimum duration of 320 hours</td>
<td>Certificado de Conocimientos Académicos (Certificate of Academic Knowledge)—awarded after completing an academically oriented program with a minimum duration of 160 hours</td>
</tr>
<tr>
<td>Certificado para la Validación (Certificate for Validation)—awarded after completing a program to validate levels, cycles or grades corresponding to academic credentials and levels of achievement in formal education</td>
<td></td>
</tr>
<tr>
<td>Certificado en Promoción Comunitaria (Certificate in Community Development)—awarded after completing a program in civic or community development with a minimum duration of 320 hours</td>
<td></td>
</tr>
</tbody>
</table>

Grading Scales and Academic Credits

SENA-administered centres use the following grading scale for their lower technical and vocational programs:

<table>
<thead>
<tr>
<th>GRADE</th>
<th>POINT EQUIVALENT</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>N or S</td>
<td>96 – 100</td>
<td>Maximum grade</td>
</tr>
<tr>
<td>A</td>
<td>84 – 95</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>72 – 83</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>60 – 71</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>30 – 59</td>
<td>Lowest passing grade</td>
</tr>
<tr>
<td>E</td>
<td>0 – 29</td>
<td>Failing grade</td>
</tr>
</tbody>
</table>

Other institutions providing lower technical and vocational training normally use the same grading scale as institutions of higher education.

Table 23. Grading Scale Used by SENA

<table>
<thead>
<tr>
<th>NUMERICAL GRADE</th>
<th>DESCRIPTIVE GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.60 – 5.00</td>
<td>Excellent; maximum grade</td>
</tr>
<tr>
<td>4.00 – 4.59</td>
<td>Very good</td>
</tr>
<tr>
<td>3.50 – 3.99</td>
<td>Good</td>
</tr>
<tr>
<td>3.00 – 3.49</td>
<td>Sufficient; lowest passing grade</td>
</tr>
<tr>
<td>0.00 – 2.99</td>
<td>Failing grade</td>
</tr>
</tbody>
</table>

Grading scales and academic credits

Lower technical and vocational institutions may also adopt the same system of academic credits as institutions of formal higher education for measuring the work completed as part of a program. Many, however, specify only the hourly intensity (intensidad horaria or IH) of a particular course or program on a transcript.

Exit Qualifications and Documentation

Graduates from lower technical and vocational programs receive a certificate of occupational aptitude (certificado de aptitud ocupacional or CAO) stating the qualification being awarded and a transcript listing the results for all courses or modules of study. The categories of certificates have been described in the nomenclature section above. The physical appearance of the documents is similar to post-secondary credentials but tends to be simpler. Samples of documentation pertaining to lower-level vocational and technical education are shown and described in the documentation chapter.
Teacher Education

Depending on the context, the Spanish term for “teacher” can vary. The most common variations are maestro/a, normalista, docente, profesor(a) or educador(a).

Formal teacher education (educación o formación docente) was first established in Colombia after the nation achieved its independence in the 19th century and several teacher-training schools (escuelas normales) were opened throughout the country. The founding of these schools marked the recognition of teaching as a profession that required formal education. Starting in the 1930s, teacher education gradually began to move into universities as well. While the escuelas normales continued training preschool and elementary school teachers, students had to obtain at least an undergraduate teaching degree in order to teach at the higher levels.

Structure of Teacher Education

Prior to 1994, training for preschool and elementary teachers concluded with a bachiller pedagógico, awarded after completion of upper secondary education. This program was offered primarily by teacher-training schools (escuelas normales) and by authorized regular secondary schools. To teach at secondary and post-secondary institutions, people were required to have at least an undergraduate degree, preferably in education.

The reforms of 1994 initiated a process of restructuring of teacher education for preschool and elementary educators. In the following years, teacher training at regular secondary schools and the title of bachiller pedagógico were gradually phased out. Teacher training at the escuelas normales was extended by two years, the curricula were restructured, and the reformed schools were renamed as escuelas normales superiores. In order to become preschool or elementary school teachers, students now had to complete a post-secondary diploma cycle (ciclo complementario) following their baccalaureate. The structure of teacher training at the higher levels remained unchanged, but undergraduate degrees in education were fixed at a minimum of 10 semesters.

Recognition of Programs and Institutions

Registration of Teacher-Training Institutions and Programs (Compulsory)

The General Law of Education of 1994 introduced a special kind of registration, called “previous accreditation” (acreditación previa), for all teacher-training programs offered by the secondary-level teacher-training schools (escuelas normales) as well as higher education institutions. This type of registration was a prerequisite for the continued operation of the programs. It required all teacher-training institutions to undergo a detailed evaluation process and to restructure their curricula in accordance with guidelines set by the Ministry of National Education in subsequent years.

By 1999, the Ministry of National Education had reviewed over 200 teacher-training schools, 138 of which had successfully implemented the reforms. The restructured schools now offered the post-secondary diploma cycle in teacher education and were renamed as escuelas normales superiores.

Note that although accreditation of higher education programs is voluntary in Colombia, “previous accreditation” for teacher-training programs was obligatory. A list of undergraduate and specialization programs in education that obtained “previous accreditation” can be found on the website of the National Council of Accreditation (Consejo Nacional de Acreditación o CNA). In 2003, “previous accreditation” was replaced by the concept of qualified register (registro calificado), which now applies to all programs of higher education.

Accreditation of Programs and Institutions (Voluntary)

For the escuelas normales superiores, the next step after obtaining registration was to seek “accreditation of quality and development” (acreditación de calidad y desarrollo) based on an internal and an external evaluation. The process of accreditation for university-level programs and institutions (acreditación de alta calidad and acreditación institucional) that offer teacher training is the same as for all other post-secondary programs and institutions. For a detailed description, refer to the chapter on higher education.
Figure 7. Structure of Teacher Education Prior to the Reforms of 1994

Baccalaureate in Teacher Education
(Bachiller Pedagógico, Maestro, Maestro Bachiller, Maestro Superior, Normalista Superior)
Upper secondary program specializing in teacher education offered by escuelas normales and other duly authorized upper secondary schools

Employment as teacher or administrator at any level of education

Licentiate (Licenciado) in education or education-related fields
Undergraduate degree program in education offered by higher education institutions
(4 years)

Specialist, Master, Doctor (Especialista, Magíster, Doctor) in education or education-related fields
Graduate degree programs offered by higher education institutions
(1–5 years)

Employment as teacher at preschool or elementary school level

Employment as teacher or administrator at any level of education

Employment as teacher at preschool or elementary school level

Figure 8. Structure of Teacher Education Following the Reforms of 1994

Baccalaureate with a focus in Education (Bachiller con Profundización en Educación) or any other type of baccalaureate (Bachiller)
Upper secondary program specializing in teacher education offered by escuelas normales superiores or any other upper secondary program

Teacher (Normalista Superior)
Post-secondary diploma cycle in teacher education offered by escuelas normales superiores
(2 years after Bachiller con Profundización en Educación or 3 years after any other type of Bachiller)

Licentiate (Licenciado) in education or education-related fields
Undergraduate degree program in education offered by higher education institutions
(5 years after any type of Bachiller or 3–3.5 years after Normalista Superior)

Specialist, Master, Doctor (Especialista, Magíster, Doctor) in education or education-related fields
Graduate degree programs offered by higher education institutions
(1–5 years)

Employment as teacher or administrator at any level of education

Employment as teacher at preschool or elementary school level
Types of Institutions, Programs and Qualifications for Teachers at Different Levels of Education

Currently, training for preschool and elementary school teachers takes place at the escuelas normales superiores. Those wishing to teach at the secondary or higher levels must hold at least an undergraduate degree, preferably in education. All of the teacher-training programs are structured around four core areas:

• general pedagogical training
• subject-specific pedagogical training
• scientific and research training
• training related to social obligations, ethics and moral values associated with the teaching profession

Preschool and Elementary School Teachers

Prior to Mid-1990s
The minimum credential required to teach at this level (all of these titles have the same academic value and can be translated as “teacher”):

• maestro/a
• maestro/a bachiller
• maestro/a superior
• normalista superior
• bachiller pedagógico

Institutions providing teacher training at this level:

• escuelas normales (teacher-training schools)
• duly authorized secondary schools

Prior to the reforms of 1994, completion of an upper secondary program specializing in teacher education (bachillerato pedagógico) entitled graduates to teach at the preschool and elementary levels of education. This type of program was offered by the escuelas normales and other secondary schools. The duration of the program was the same as for other baccalaureate programs (two years of upper secondary studies), but the minimum number of weekly hours of instruction was slightly higher (39 hours) compared to other upper secondary programs (30–35 hours). Students graduated with one of the titles listed above. All of these titles were equivalent.

After Mid-1990s
The minimum credential required to teach at this level:

• normalista superior (teacher)

Institutions providing teacher training at this level:

• escuelas normales superiores (teacher-training schools)

Following the reforms of 1994, teacher training at regular secondary schools was gradually phased out and the title of bachiller pedagógico, along with its equivalents, was eliminated. Currently, the restructured teacher-training schools (escuelas normales superiores) offer a similar program of study leading to a baccalaureate with a focus in education (bachiller con profundización en educación). However, the bachiller con profundización en educación no longer entitles graduates to teach independently at any level. All students wishing to become preschool or elementary school teachers must now complete a post-secondary diploma cycle in teacher education (ciclo complementario, literally the complementary cycle). This program is offered only by the escuelas normales superiores and leads to the title of normalista superior (teacher).

Currently, out of the 138 escuelas normales superiores operating in Colombia, 128 are public and only 10 are private. Unlike institutions of higher education, these schools are spread uniformly throughout the country. In many rural and remote areas, they are the only institutions offering post-secondary education. Each escuela normal superior develops the post-secondary diploma cycle in one of nine obligatory and fundamental areas of elementary education shown in Figure 2.

The post-secondary diploma cycle follows completion of upper secondary education (that is, Grade 11). Most students entering the program have completed a bachiller con profundización en educación at the same school and require four semesters of additional study to complete the post-secondary diploma cycle. These semesters are sometimes referred to as Grades 12 and 13. Graduates from other types of bachillerato programs can be admitted to the post-secondary diploma cycle too, but they would have to complete six semesters of study. Sample curricula for bachillerato con profundización en educación and the post-secondary diploma cycle in teacher training are shown in Appendix I.
Graduates from the post-secondary diploma cycle can either enter the workforce as preschool or elementary school teachers or they can continue their education at the undergraduate level. All escuelas normales superiores have transfer of credit agreements with selected higher education institutions. Holders of the title of normalista superior typically receive credit for three or four semesters of undergraduate study in their area of specialization. It is common for these transfer students to complete their undergraduate studies in the evenings while they work during the daytime. Few students continue with undergraduate studies after completing the post-secondary diploma cycle.

The title of normalista superior is the minimum requirement to teach at the preschool and elementary school levels. Teachers who hold higher qualifications (for example, a licenciado in preschool education) are automatically entitled to teach at these levels as well.

**Lower and Upper Secondary School Teachers**

The minimum credential required to teach at this level:

- licenciado/a (licentiate, that is, an undergraduate degree in education)
- any other type of undergraduate degree + one year of teacher training

Institutions providing teacher training at this level:*

- universities (universidades)
- university institutions (instituciones universitarias)
- technological schools (escuelas tecnológicas)

* In rare instances, undergraduate programs in education can also be offered by professional technical institutions (instituciones técnicas profesionales) and technological institutions (instituciones tecnológicas).

According to SNIES, 591 undergraduate degree programs in education (licenciaturas) are currently offered throughout Colombia. In 2004, there were 70 faculties of education (facultades de educación) within various post-secondary institutions, 45 private and 25 public. The two universities that specialize in teacher training are the Universidad Pedagógica Nacional (National Pedagogical University) and the Universidad Pedagógica y Tecnológica de Colombia (Pedagogical and Technological University of Colombia), but only the former is dedicated exclusively to teacher training.

Most students entering undergraduate programs in education are admitted based on the title of bachiller académico and a sufficient score on the ICFES State Examination for Admission to Higher Education. Apart from these requirements, applicants must generally pass an additional admission exam, a personal interview and a test of pedagogical potential (prueba de potencialidad pedagógica) administered by the higher education institution.

Prior to the mid-1990s, undergraduate degree programs in education (licenciaturas) typically lasted four years. Currently, they must have a minimum duration of five years. Evening programs and programs completed through distance education take at least six years. Students admitted to an undergraduate program based on the title of normalista superior (awarded on completion of the post-secondary diploma cycle) typically receive credit for three or four semesters of undergraduate study in their area of specialization. For all programs, theoretical instruction is complemented by a teaching practicum (práctica pedagógica), giving students the opportunity to acquire experience as teaching assistants and practicing teachers at different educational institutions. The basic curricular structure of undergraduate programs in education is shown in Appendix J.

The academic title awarded to students who complete an undergraduate program in education is always licenciado/a (licentiate). Licentiates can be awarded in general areas of education such as child pedagogy (Licenciado en Pedagogía Infantil) or in specific subjects such as mathematics (Licenciado en Matemáticas). Often licentiates also indicate an area of focus (énfasis) within a particular stream of education, for example, Licenciado en Educación Básica con Énfasis en Humanidades y Lengua Castellana (Licentiate in Basic Education with Focus on Humanities and Spanish Language).

Theoretically, an undergraduate degree in education entitles the holder to teach at any level of education, but many of the licenciatura programs are designed specifically to train secondary school teachers. Students may also continue their studies at the graduate level. Holders of undergraduate degrees in disciplines other than education may also teach in their area of expertise provided that they supplement their education with at least one year of teacher training.
Post-Secondary and University-Level Instructors

The minimum credential required to teach at this level:

- licenciado/a (licentiate, that is, an undergraduate degree in education), preferably supplemented by some graduate studies
- any other type of undergraduate degree + one year of teacher training, preferably supplemented by some graduate studies

Institutions providing teacher training at this level:

- universidades
- instituciones universitarias
- escuelas tecnológicas

*In rare instances, undergraduate programs in education can also be offered by professional technical institutions and technological institutions.

In order to teach at the post-secondary level, instructors must possess at least an undergraduate degree in education (licenciado) or any other undergraduate degree supplemented by at least one year of teacher training. Universities typically have higher requirements and give preference to instructors who have completed some graduate study. Each higher education institution has the right to determine its own requirements for hiring and advancement.

For graduate-level programs in education, according to SNIES, several hundred specializations are available in addition to 69 master's (maestrías) and 12 doctoral programs (doctorados). Admission requirements and other regulations for graduate programs in teacher education are the same as for all other graduate programs. Specializations typically last two or three semesters. Master's programs last an average of four semesters, while doctoral programs tend to be six semesters long if taken after a master's degree and 10 semesters long if taken after an undergraduate degree. Students entering master's programs after completing a specialization are usually not granted any transfer of credit.

According to statistics from 2000, only 2.2 per cent of all higher education instructors held a doctorate and only 22.5 per cent dedicated themselves full-time to teaching (UNESCO IESALC & Universidad Pedagógica Nacional, 2004, p. 34). These statistics are not surprising given that academics at Colombian universities are often successful professionals who lecture part-time in addition to practicing their professions.

Teacher Aides

Completion of teaching-related programs at the technical and vocational level has never entitled the graduates to teach independently but rather has allowed them to work as support staff in education.

Higher technical and vocational programs for teacher aides were not common in the past and are extremely rare in the present. Most programs leading to the titles of professional technician and technologist in various areas of education were phased out in the 1990s. Training for teacher aides, particularly in preschool education, is still available at the level of lower technical and vocational education. Such programs typically require completion of Grade 9 for admission, and last an average of four semesters. Students graduate with a certificate of occupational aptitude (certificado de aptitud ocupacional) awarding them the qualification of Técnico en Auxiliar de Pre-Escolar (Technician – Preschool Education Assistant).

Grading Scales and Academic Credits

Teacher-training programs at the upper secondary and post-secondary diploma levels employ the same grading scales as all other secondary schools. Most undergraduate and graduate teacher-training programs use the 5-point grading scale and the academic credit system typically employed by higher education institutions. The Universidad Pedagógica Nacional is an exception as it uses a 50-point scale, with 30 as the lowest passing grade. For a detailed description of the evaluation criteria, refer to the chapter on grading scales.

Examinations, Exit Credentials and Employment

Examinations

Students nearing completion of the post-secondary diploma cycle and most undergraduate programs in education must take the national Examination of Quality of Higher Education (Examen de Calidad de la Educación Superior), commonly referred to as ECAES. Note that individual ECAES scores have no direct impact on whether a student
is awarded their degree. Graduation and the award of the academic title depend strictly on internal evaluations conducted by the institution of higher education. More information on the ECAES can be found in the chapter on higher education.

**Exit Credentials**

Educators must possess the educational requirements outlined in Table 25 in order to teach independently at particular levels. Samples of documents pertaining to teacher education are described in the chapter on documentation.

**TABLE 25. LEVEL OF EDUCATION REQUIRED FOR EDUCATORS IN COLOMBIA**

<table>
<thead>
<tr>
<th>TYPE OF TEACHERS</th>
<th>LEVEL OF EDUCATION REQUIRED</th>
<th>INSTITUTIONS PROVIDING TEACHER EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preschool and elementary school teachers</td>
<td>Prior to mid-1990s</td>
<td>Escuelas normales and authorized upper secondary schools</td>
</tr>
<tr>
<td></td>
<td>One of the following titles:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• bachiller pedagógico</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• maestro/a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• maestro/a superior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• maestro/a bachiller</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• normalista superior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>All of the above titles represent completion of an upper secondary program with a specialization in teaching.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Any teaching credential higher than the ones listed above, for example, licenciado, would have entitled the individual to teach at these levels of education as well.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>After mid-1990s</td>
<td>Escuelas normales superiores</td>
</tr>
<tr>
<td></td>
<td>Title of normalista superior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This title represents completion of a two-year post-secondary diploma cycle in teacher education, following graduation from an upper secondary program with the title bachiller con profundización en educación. For those holding any other type of bachiller, the post-secondary diploma cycle lasts three years.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Any teaching credential higher than the one listed above, for example, licenciado, entitles the individual to teach at these levels of education as well.)</td>
<td></td>
</tr>
<tr>
<td>Lower and upper secondary school teachers</td>
<td>Title of licenciado/a or</td>
<td>Institutions of higher education (typically universities) with a licensed faculty of education</td>
</tr>
<tr>
<td></td>
<td>any other type of undergraduate degree + 1 year of teacher training</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prior to mid-1990s, undergraduate degree programs in education (licenciaturas) typically lasted four years.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Currently, they must last at least five years.</td>
<td></td>
</tr>
<tr>
<td>Higher education instructors</td>
<td>Same as for lower and upper secondary school teachers, preferably supplemented by some graduate studies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(for example, a graduate-level specialization).</td>
<td></td>
</tr>
</tbody>
</table>

**Professional Registration and Employment**

In order to teach at a public institution, an instructor must first be inscribed in the *escalafón docente* (teachers’ ranking). The current *escalafón*, introduced in 2002, consists of three grades, each further subdivided into four salary levels. Teachers are located on the *escalafón* according to their level of education and are promoted based on their experience, performance and further professional development. In 2006, a teacher who had reached the highest grade and salary level within the ranking earned Col$1,938,000 or approximately C$1,055 per month, an amount equivalent, at the time, to about five times the minimum monthly salary (Corpoeducación et al., 2006. p. 22). Additional bonuses are paid to teachers working in rural and remote areas.

Instructors at private institutions must possess the same educational credentials but do not have to be paid according to the *escalafón*. They must be paid a minimum of 80 per cent of the monthly salary established for state teachers or 80 per cent of the equivalent hourly wages.
## Grading Scales

### School Education

Several grading scales have been used recently in Colombian school education. The Ministry of National Education sets the terminology for evaluation, but individual schools determine the exact criteria. In other words, the point and percentage equivalents in Tables 26 and 27 should be viewed as approximate values. Keep in mind that the maximum grade indicates superior performance and is awarded to students who exceed most of the performance expectations. Grades above 9.0 on the 10-point scale are rarely attained.

### Table 26. Grading Scales for Elementary, Lower Secondary and Upper Secondary Education

<table>
<thead>
<tr>
<th>SPANISH DESCRIPToR</th>
<th>ENGLISH DESCRIPToR</th>
<th>APPROXIMATE POINT AND PERCENTAGE EQUIVALENT</th>
<th>COMMENTS</th>
<th>IQAS COMPARISON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excelente (E)</td>
<td>Excellent</td>
<td>9.0 – 10.0 or 90% – 100%</td>
<td>Maximum grade</td>
<td>89% – 100%</td>
</tr>
<tr>
<td>Sobresaliente (S)</td>
<td>Outstanding</td>
<td>8.0 – 8.9 or 80% – 89%</td>
<td></td>
<td>76% – 88%</td>
</tr>
<tr>
<td>Aceptable (A)</td>
<td>Acceptable</td>
<td>7.0 – 7.9 or 70% – 79%</td>
<td></td>
<td>63% – 75%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6.0 – 6.9 or 60% – 69%</td>
<td>Minimum pass</td>
<td>50% – 62%</td>
</tr>
<tr>
<td>Insuficiente (I)</td>
<td>Insufficient</td>
<td>4.0 – 5.9 or 40% – 59%</td>
<td>Failing grade</td>
<td>Fail</td>
</tr>
<tr>
<td>Deficiente (D)</td>
<td>Deficient</td>
<td>0.0 – 3.9 or 0% – 39%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B) 1994 – 2002

<table>
<thead>
<tr>
<th>SPANISH DESCRIPToR</th>
<th>ENGLISH DESCRIPToR</th>
<th>APPROXIMATE POINT AND PERCENTAGE EQUIVALENT</th>
<th>COMMENTS</th>
<th>IQAS COMPARISON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excelente (E)</td>
<td>Excellent</td>
<td>9.0 – 10.0 or 90% – 100%</td>
<td>Maximum grade</td>
<td>89% – 100%</td>
</tr>
<tr>
<td>Bien/Bueno (B)</td>
<td>Good</td>
<td>8.0 – 8.9 or 80% – 89%</td>
<td></td>
<td>76% – 88%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7.0 – 7.9 or 70% – 79%</td>
<td></td>
<td>63% – 75%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6.0 – 6.9 or 60% – 69%</td>
<td>Minimum pass</td>
<td>50% – 62%</td>
</tr>
<tr>
<td>Insuficiente (I)</td>
<td>Insufficient</td>
<td>0.0 – 5.9 or 0% – 59%</td>
<td>Failing grade</td>
<td>Fail</td>
</tr>
</tbody>
</table>

### Table 27. Older Grading Scales for Lower and Upper Secondary Education

A) 1974 – 1994

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ALTERNATIVE POINT EQUIVALENT*</th>
<th>COMMENTS</th>
<th>IQAS COMPARISON</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5 – 10.0</td>
<td>95 – 100</td>
<td>Maximum grade</td>
<td>90% – 100%</td>
</tr>
<tr>
<td>8.5 – 9.4</td>
<td>85 – 94</td>
<td>Indicates excellent performance</td>
<td>77% – 89%</td>
</tr>
<tr>
<td>7.5 – 8.4</td>
<td>75 – 84</td>
<td>Indicates good performance</td>
<td>64% – 76%</td>
</tr>
<tr>
<td>6.0 – 7.4</td>
<td>60 – 74</td>
<td>Minimum pass</td>
<td>50% – 63%</td>
</tr>
<tr>
<td>0.0 – 5.9</td>
<td>0 – 59</td>
<td>Failing grade</td>
<td>Fail</td>
</tr>
</tbody>
</table>

* The 100-point scale gained popularity after 1978, but was never universally adopted by all schools.
Higher Education

The grading scale for all types of higher education has been standardized and implemented by all types of Colombian post-secondary institutions for several decades.

**Table 28. Grading Scale for Higher Education**

<table>
<thead>
<tr>
<th>Numerical Grade</th>
<th>Descriptor and Comments</th>
<th>IQAS Comparison</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.60 – 5.00</td>
<td>Excellent; maximum grade</td>
<td>90% – 100%</td>
</tr>
<tr>
<td>4.00 – 4.59</td>
<td>Very good</td>
<td>78% – 89%</td>
</tr>
<tr>
<td>3.50 – 3.99</td>
<td>Good</td>
<td>66% – 77%</td>
</tr>
<tr>
<td>3.00 – 3.49</td>
<td>Sufficient; minimum pass</td>
<td>50% – 65%</td>
</tr>
<tr>
<td>0.00 – 2.99</td>
<td>Failing grade</td>
<td>Fail</td>
</tr>
</tbody>
</table>

Only a few institutions choose to use a different evaluation method. For instance, Universidad Católica de Colombia uses a 10-point scale, with 6 as the lowest passing grade. Universidad Pedagógica Nacional uses a 50-point scale, with 30 as the lowest passing grade.

Technical and Vocational Education

Institutions providing lower technical and vocational education normally use the same grading scale as institutions of higher education (see Table 28). SENA uses a different scale for its lower technical and vocational programs, as shown in Table 29.

**Table 29. SENA Grading Scale**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Point Equivalent</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>N or S</td>
<td>96 – 100</td>
<td>Maximum grade</td>
</tr>
<tr>
<td>A</td>
<td>84 – 95</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>72 – 83</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>60 – 71</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>30 – 59</td>
<td>Minimum pass</td>
</tr>
<tr>
<td>E</td>
<td>0 – 29</td>
<td>Failing grade</td>
</tr>
</tbody>
</table>
Documentation

Preschool, Elementary and Lower Secondary Education

No specific exit credentials are associated with completing preschool since evaluation at this level is expressed as qualitative progress reports.

After successfully completing elementary school, students may receive the Certificate of Completion of the Fifth Grade of Elementary Instruction (Certificado al Quinto Grado de Enseñanza Primaria), but in most cases they receive only a transcript of all the courses completed and the grades obtained.

Students who complete lower secondary education (that is, Grade 9) and plan to continue their education at the upper secondary level usually proceed automatically to Grade 10, without being awarded a certificate. Some schools, however, may award the Certificate of Basic Secondary School Studies (Certificado de Estudios del Bachillerato Básico), which can also be called Certificate of Completion of Studies of Basic Education (Certificado de Término de Estudios de Educación Básica) and which was formerly known as the Certificate of Completion of the Basic Cycle of Middle Instruction (Certificado de Aprobación del Ciclo Básico de Enseñanza Media).

Upper Secondary Education

Successful completion of upper secondary education leads to the title of bachiller in a specific area. For documentation, upper secondary graduates receive a diploma, usually accompanied by a graduation record and a transcript, all issued by the school.

Diploma

The Colombian baccalaureate diploma (diploma de bachiller) tends to be a larger document printed on parchment or thicker paper. The text is always in Spanish.

The diploma generally contains the following elements, marked with corresponding numbers on the images of the sample documents shown in Exhibits 1 to 4 (in Appendix K):

1. National and institutional names and symbols: The diplomas are issued by the school in the name of the republic; hence, the phrase “La República de Colombia y en su nombre + name of school” often appears on top of the credential along with the Colombian coat of arms. The symbol of the school or the national coat of arms may also be incorporated into the document as a background image.

2. Authorization: Under the school name, there is always a reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the school to operate and grant titles.

3. Student’s name and identification: Students from Spanish-speaking countries usually have a first name, a middle name, a paternal surname and a maternal surname. Along with the student’s names, the number of their identification document and the city where it was issued always appear on the credential. For those below the age of 18, the main identification document is the Tarjeta de Identidad (identity card), abbreviated as TI. For those 18 years and older, it is the Cédula de Ciudadanía (citizenship card), abbreviated as CC.

4. Program information and title: The diploma clearly states the level (nivel) of education completed by the student and the title (título) being awarded along with the specialization (modalidad).

5. Diploma number and inscription reference: All diplomas are registered (anotado or registrado) in the school records. The number of the book (libro) and the folio (folio) where the diploma was inscribed appear toward the bottom of the document. Each diploma typically has its own individual number (diploma no. or simply no.) stated on the document. If the diploma is a duplicate (duplicado), this fact is also indicated.

6. Signatures: The diploma should be signed by the school principal (rector) and the secretary (secretario) or administrative director (subdirector administrativo). The ink stamps and identification numbers of the signatories may also appear on the document.

7. Place and date of issue.

Graduation Record

The graduation record (acta de grado, acta de graduación or acta individual de graduación) is a separate document confirming the fact that the student has graduated from upper secondary education and was awarded the title of bachiller. The diploma and the graduation record are viewed in Colombia as having equal academic value.

The format of a graduation record from upper secondary school resembles a letter and normally contains the following elements, marked with corresponding numbers on
the image of the sample document (Exhibit 5, Appendix K):

1. Name and symbol of the educational institution.
2. Institutional information: Information about the legal status of the school, the specific titles the school is authorized to award, and a reference to a resolution (resolución), decree (decreto) or law (ley) with regard to the above points is addressed in the first part.
3. Graduation record number: Graduation records may or may not be numbered. (This information does not appear in the sample document in Exhibit 5.)
4. Student’s name and identification.
5. Level of education completed.
6. Inscription reference: Since all graduating students are registered in the school’s administrative records, the book (libro) and the folio (folio) where they were inscribed is mentioned on the document.
7. Signatures: The record should be signed by the school principal (rector) or director (director) and the secretary (secretario). Ink stamps of the signatories may also appear along with the numbers of their identification documents.
8. Place and date of issue.

Transcript

The quality of Colombian transcripts (certificado de calificaciones, certificado de notas, certificado de resultados or certificado de estudio) varies greatly. Most often secondary school transcripts are not as sophisticated as university transcripts. The technology used to produce secondary school transcripts ranges from typewriters to various computer printers. The transcripts can include grades for all years of secondary study or can be issued on a yearly basis.

All secondary school transcripts share these characteristics, marked with corresponding numbers on the images of the sample documents (Exhibits 6 and 7, Appendix K):

1. Name and symbol of the educational institution.
2. Authorization: A reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the school to operate and grant titles may or may not appear on the transcript.
3. Transcript number: The transcripts may or may not be numbered. The transcript number can also be referred to as certificate number (certificado no.).
4. Student’s name and identification.
5. Program information and level of education completed: The transcript clearly states the grade (grado) and/or level of education completed by the student.
6. Subjects, hours and grades: All the subjects (asignaturas) taken within the period specified on the transcript should be listed along with the number of hours of instruction per week (intensidad horaria (IH), horas semanales (HS) or intensidad horaria semanal (IHS)). The final grades (notas, evaluación, valoración, calificaciones or resultados) for each subject are indicated either as descriptive grades (for example, acceptable) or as numbers with the numerical value written out in words as well (for example, 6.5 seis cinco). Comments about the student’s behaviour (comportamiento) and other observations (observaciones) can be included on transcripts.
7. Signatures: The transcript should be signed by at least one person: the school principal (rector), the secretary (secretario) or both. Ink stamps of the signatories may also appear.
8. Place and date of issue.

Diploma Registry

In the years 1981—94, students were required to have their bachiller diplomas inscribed in a national registry maintained by the local Secretariats of Education (Secretarías de Educación). Without registration, the bachiller title was considered invalid. The process entailed first having the signatures on the credentials authenticated by a notary public and then having the documents inspected by a representative of the Secretariat of Education and inscribed into the secretariat’s books.

This explains the numerous stamps and signatures that often appear on the reverse side of Colombian secondary school diplomas and graduation records. A sample of the reverse side of a bachiller diploma is shown in Exhibit 8 (Appendix K), followed by enlarged images and descriptions of all the stamps and signatures.

The following stamps and signatures, marked with corresponding numbers in Exhibit 8, frequently appear on the reverse side of bachiller diplomas.

1. Ink stamps and signature of the notary.
2. Ink stamps and signatures of representatives of the Secretariat of Education.
3. Adhesive stamps indicating payment of fees to issue the diploma and its registration (may appear on some credentials). These stamps are different from regular postage stamps. Postage stamps do not have serial numbers (for example, B8268134).
Legalization

Students who intend to use their academic credentials abroad usually have their documents authenticated by a notary public and legalized by:

4. the Ministry of Exterior Relations (Ministerio de Relaciones Exteriores) and/or
5. the Ministry of National Education (Ministerio de Educación Nacional)

Colombian educational credentials may also bear an apostille, which is a stamp resembling a sticker. The apostille confirms the legalization of a document for international use under the terms of the 1961 Hague Convention Abolishing the Requirement of Legalization for Foreign Public Documents. Documents certified with an apostille are accepted for legal use in all nations that have signed the convention. In Colombia, the apostilles are issued exclusively by the Ministry of Exterior Relations and can be verified on the ministry’s website.

State Examination for Admission to Higher Education

On completing upper secondary school, students planning to pursue post-secondary education must take the State Examination for Admission to Higher Education (Examen de Estado para Ingreso a la Educación Superior), commonly referred to as examen de estado (state exam) or pruebas ICFES (ICFES tests). The exam consists of a series of tests designed to assess students’ competencies in the areas of natural sciences (biology, physics, chemistry), social sciences, Spanish language, philosophy, mathematics, a foreign language (English, French or German) and selected interdisciplinary topics (for example, environmental studies, culture and communication, society and violence).

Students can consult their scores online on the ICFES website and obtain a printout of their results.

Higher Education

The set of documents that students receive on completion of post-secondary education programs is the same as at the upper secondary level. It consists of a diploma stating the title obtained, a graduation record and an academic transcript with the results for all semesters of study. Overall, the appearance and format of post-secondary documentation are similar to those of upper secondary school credentials.

Diploma

The diploma generally contains the following elements, marked with the corresponding numbers on the images of the sample documents (Exhibits 18 to 28, Appendix K).

1. National and institutional names and symbols: As of 1992, post-secondary academic titles are granted directly by the institutions, which have full authority over the format and content of the diploma certificates they issue. This is why the name and symbol of the institution feature more prominently on post-secondary documents than do the national symbols. The Ministry of National Education is often mentioned on higher education credentials.

2. Authorization: Under the institution’s name, reference often appears to a resolution (resolución), decree (decreto) or law (ley) authorizing the institution to operate and grant titles.

3. Student’s name and identification.

4. Program information and title: The diploma clearly states the title awarded. All academic titles may be preceded by phrases like título de (title of), título profesional de (professional title of), diploma de (diploma of) or grado de (degree of). The program registration number (código ICFES, registro ICFES or código SNIES) may appear both on the diploma certificate and on the graduation record.

5. Diploma number and inscription reference: All diplomas are registered (anotado or registrado) in the institutional records. The number of the book (libro) and the folio (folio) where the diploma was inscribed appear toward the bottom of the document. Most diplomas also have their number (diploma no. or simply no.) stated on the document. If the diploma is a duplicate (duplicado), this fact is also indicated.

6. Signatures: All diplomas must be signed by the institution’s head authorities, such as the president (rector), dean of the faculty (decano de la facultad), general secretary (secretario general) and/or academic director (director académico).

7. Place and date of issue.
Graduation Record

A graduation record (acta de grado, acta de graduación or acta individual de graduación) from an institution of higher education normally contains the following elements, marked with the corresponding numbers on the images of the sample documents (Exhibit 29, Appendix K):

1. Name and symbol of the educational institution: Apart from the institution, the faculty from which the student graduated should also be mentioned.
2. Institutional information: Information about the legal status of the institution, the specific titles the institution is authorized to award, and a reference to a resolution (resolución), decree (decreto) or law (ley) with regard to the above points may or may not appear on post-secondary graduation records. (This information does not appear in the sample document in Exhibit 29.)
3. Graduation record number: Graduation records may or may not be numbered.
4. Student’s name and identification.
5. Level of education completed: Apart from the title awarded, the program registration number (código ICFES, registro ICFES or código SNIES) may appear on the graduation record.
6. Additional information: Post-secondary graduation records frequently mention details such as the institutional authorities present at the graduation ceremony or the title of the student’s final project.
7. Inscription reference: Since all graduation ceremonies and diplomas awarded are registered (anotado o registrado) in the institutional records, the number of the corresponding book (libro) and the folio (folio) are mentioned on the document.
8. Signatures: The record should be signed by the institution’s head authorities, such as the president (rector), dean of the faculty (decano de la facultad), general secretary (secretario general) and/or academic director (director académico).
9. Place and date of issue.

Transcript

Colombian post-secondary transcripts (certificado de calificaciones, certificado de notas, certificado de resultados or certificado de estudio) are similar in format and content to Canadian ones. Often they are printed on paper with security features. They are more detailed than secondary school transcripts.

Several items, marked with the corresponding numbers on the sample documents (Exhibit 30, Appendix K), should appear on a typical post-secondary transcript:

1. Name and symbol of the educational institution: The institution’s name and symbol frequently appear as a background image or as part of the security features on the document.
2. Authorization: A reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the school to operate and grant titles may or may not appear on the transcript. (This information does not appear in the sample document in Exhibit 30.)
3. Transcript number: The transcripts may or may not be numbered. (This information does not appear in the sample document in Exhibit 30.)
4. Student’s name and identification.
5. Program information: Apart from the name of the program, the transcript may also indicate the student’s status (estado), that is, whether or not they graduated (graduado) from the program.
6. Subjects, hours, credits and grades: All the subjects (asignaturas) taken are listed, along with the number of credits (créditos) obtained for each course or the hours of instruction per week (intensidad horaria, IH; horas semanales, HS; or intensidad horaria semanal, IHS). The final grades (notas, evaluación, valoración, calificaciones or resultados) for each subject are typically indicated as numbers. Most post-secondary transcripts are organized by semesters (semestres) or academic periods (periodos académicos) of study. The grade averages for each particular semester or academic period (promedio semestral or promedio periodo) are also usually shown.
7. Summary of credits and results: A summary of the credits (créditos) required by the program and credits accumulated by the student typically appears either on top or at the bottom of the document along with other general information such as the student’s final grade point average (promedio acumulado).
8. Signatures: All post-secondary transcripts should be signed by at least one person, usually the registry director (director de registro), and are often stamped by the institution or the individual who signed them.
9. Place and date of issue: The office issuing the transcript and the date of issue must be indicated on the document.
10. Explanatory legend and grading scale: At the end of the transcript, a legend of the abbreviations and/or the grading scale is sometimes included.
Diploma Registry
In the years 1980–95, higher education credentials had to be inscribed in a national diploma registry (registro de diplomas) as did bachiller diplomas. This is why post-secondary documents from this time period typically bear the same stamps pertaining to the inscription process as those already described in the upper secondary education section.

Legalization
Students intending to use their post-secondary credentials abroad usually have their documents authenticated and/or legalized in the same way as is done for upper secondary school documents. For samples of legalization stamps and their descriptions, refer to that section.

In addition, post-secondary documents often bear the ink stamp of the Ministry of National Education or ICFES (prior to 2003), along with the signatures of officials. The stamps confirm that the institution issuing the document is duly recognized and authorized to operate by the Colombian government.

Professional Registration and Licensing
Approximately 60 professions—including those in health, engineering and administration—are regulated in Colombia and require graduates to obtain additional registration with the appropriate professional council (consejo professional), board (junta) or ministry (ministerio). In these cases, academic titles alone do not entitle the degree holders to practice their professions. They must first be issued a certificate of professional registration (certificado de matrícula profesional) and a wallet-size professional license (tarjeta profesional) permitting them to practice the profession.

Certificate
Several main elements are marked on the sample CAOs (Exhibit 33, Appendix K):
1. National and institutional names and symbols: Note that in the late 1990s, SENA's logo changed, as shown in Figure 9.

   ![Figure 9. SENa's Former (Left) and Current (Right) Logos](image)

2. Authorization: Under the institution’s name, there may be reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the institution to operate and to offer this type of education. Such authorization is not required for lower technical and vocational programs administered by SENA.

3. Student’s name and identification. (The actual names and identification numbers have been removed from the sample credentials to protect the privacy of the individuals.)

4. Qualification awarded: The certificate clearly states the qualification being awarded. Often, the CAO simply states the occupation in which the skills were acquired. For example, many SENA certificates contain the phrase, “El Servicio Nacional de Aprendizaje SENA certifica la aptitud ocupacional/profesional de (name of student) en el oficio de (name of trade or occupation),” translating to “The National Apprenticeship Service SENA certifies the occupational/professional aptitude of (name of student) in the trade/occupation of (name of trade or occupation).”

5. Areas studied and mode of training: SENA certificates, in particular, list the subjects completed by the student (areas aprobadas) on the CAO and state the mode of training (modo de formación), for example,
apprenticeship (aprendizaje). SENA certificates issued prior to the 1980s indicated the total duration (duración total) of the program.

6. **Certificate type and number:** SENA issues several types of certificates, which are listed on the reverse side of the CAO. The type of certificate is also specified in the lower right-hand corner on the front of the document. Often the CAOs also have their own unique number. In the case of SENA certificates, the number appears on the reverse side of the document.

7. **Inscription reference:** The CAOs are generally inscribed in institutional records. The register number (registro no.) confirms their registration.

8. **Signatures:** All CAOs must be signed by the institution’s head authorities, such as the director (director) or general secretary (secretario general). SENA certificates are normally signed and stamped by the assistant regional manager (subgerente regional) and the secretary (secretario).

9. **Place and date of issue.**

**Transcript**

Several items, marked with the corresponding numbers on the images of sample documents (Exhibit 34, Appendix K), should appear on a typical transcript issued by an institution providing lower-level technical and vocational training:

1. **Name and symbol of the educational institution.**

2. **Authorization:** A reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the school to operate and grant titles may or may not appear on the transcript. (This information does not appear in the sample document in Exhibit 34.)

3. **Transcript number:** The transcripts may or may not be numbered. (This information does not appear in the sample document in Exhibit 34.)

4. **Student’s name and identification.** (The actual name and identification number have been removed from the sample document to protect the privacy of the individual.)

5. **Type of program completed.**

6. **Subjects, hours and grades:** All the subjects (asignaturas) taken are listed along with the grades (notas, evaluación, valoración, calificaciones or resultados) obtained for each course and the hours of instruction per week (intensidad horaria, IH; horas semanales, HS; or intensidad horaria semanal, IHS). The final grades for each subject are indicated according to the grading scale used by the institution. Most transcripts are organized by semesters (semesters) and may make reference to the instruction stage (etapa lectiva) and the apprenticeship or practical stage (etapa productiva).

7. **Signatures:** The transcripts generally are signed by a secretary (secretario) or coordinator (coordinador).

8. **Place and date of issue.**

9. **Explanatory legend and grading scale:** At the end of the transcript, a legend of the abbreviations and/or the grading scale is often included.

**Diploma Registry and Legalization**

With the exception of certificates of occupational or professional aptitude in assistant health professions, lower technical and vocational qualifications do not require separate registration. The CAOs in assistant health professions must be registered with the regional Secretariat of Health (Secretaría de Salud) and hence may bear the corresponding stamps of the secretariat on the reverse side of the certificate.

Since CAOs do not have the same value as formal academic titles, they are rarely legalized.
References

Print Resources


Internet Resources

Note: URLs referenced in this section were accurate and functional at the time of writing, but since websites and Internet content are subject to change, their ongoing status cannot be guaranteed.


Websites

Note: URLs referenced in this section were accurate and functional at the time of writing, but since websites and Internet content are subject to change, their ongoing status cannot be guaranteed.

Colombian Websites


Centro Colombiano de Estudios de Lenguas Aborígenes (CCELA). Retrieved 27 August 2007, from ccela.uniandes.edu.co/


Proyecto 6x4 UEALC. Retrieved 18 December 2007, from www.6x4uealc.org/

Red Colombiana de Facultades de Contaduría Pública. Retrieved 31 January 2008, from redfacultadescontaduria.org/


International Websites


Acronyms

ASCUN  
Colombian Association of Universities  
(Asociación Colombiana de Universidades)

CAO  
certificate of occupational aptitude (certificado de aptitud ocupacional)

CAP  
certificate of professional aptitude (certificado de aptitud profesional)

CC  
citizenship card (cédula de ciudadanía)

CERES  
Regional Centres of Higher Education (Centros Regionales de Educación Superior)

CESU  
National Council of Higher Education (Consejo Nacional de Educación Superior)

CNA  
National Council of Accreditation (Consejo Nacional de Acreditación)

COLCIENCIAS  
Colombian Institute for the Development of Science and Technology “Francisco José de Caldas”  
(Instituto Colombiano para el Desarrollo de la Ciencia y la Tecnología “Francisco José de Caldas”)

COLCULTURA  
Colombian Institute of Culture (Instituto Colombiano de Cultura)

COLDEPORTES  
Colombian Institute of Sport (Instituto Colombiano de Deporte)

CONACES  
National Cross-Sector Commission for the Quality Assurance of Higher Education  
(Comisión Nacional Intersectorial de Aseguramiento de la Calidad de la Educación Superior)

ECAES  
Examinations of Quality of Higher Education  
(Exámenes de Calidad de la Educación Superior)

HS  
weekly hours (horas semanales);  
see other variations: intensidad horaria, IH or intensidad horaria semanal, IHS

ICETEX  
Colombian Institute of Educational Credit and Technical Studies Abroad (Instituto Colombiano de Crédito Educativo y Estudios Técnicos en el Exterior)

ICFES  
Colombian Institute for the Promotion of Higher Education  
(Instituto Colombiano para el Fomento de la Educación Superior)

IESALC  
UNESCO's International Institute for Higher Education in Latin America and the Caribbean

IH  
hourly intensity (intensidad horaria);  
see other variations: horas semanales, HS or intensidad horaria semanal, IHS

IHS  
weekly hourly intensity (intensidad horaria semanal);  
see other variations: intensidad horaria, IH or horas semanales, HS

INEM  
National Institute of Diversified Middle Education  
(Instituto Nacional de Educación Media Diversificada)

OEI  
Organization of Ibero-American States  
(Organización de Estados Iberoamericanos)
<table>
<thead>
<tr>
<th>Acronym</th>
<th>English Description</th>
<th>Spanish Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OML</td>
<td>Labour Market Observatory</td>
<td>Observatorio del Mercado Laboral</td>
</tr>
<tr>
<td>SENA</td>
<td>National Apprenticeship Service</td>
<td>Servicio Nacional de Aprendizaje</td>
</tr>
<tr>
<td>SNIES</td>
<td>National System of Information of Higher Education</td>
<td>Sistema Nacional de Información de Educación Superior</td>
</tr>
<tr>
<td>TI</td>
<td>identity card (tarjeta de identidad)</td>
<td></td>
</tr>
<tr>
<td>ULA</td>
<td>units of academic work (unidades de labor académico)</td>
<td></td>
</tr>
</tbody>
</table>
**Appendix A—IQAS Placement Recommendations**

Placement recommendations provide guidelines for comparing international and Canadian educational credentials and standards. These recommendations are advisory in nature and indicate the general level of a credential in Canadian terms.

Placement recommendations represent benchmark assessments and do not cover all credentials. However, the fact that a credential is not mentioned in the placement recommendations does not mean it cannot be assessed by IQAS. International credentials not specifically covered should be referred to IQAS for individual evaluation.

Given the different educational philosophies, objectives and program structures in educational systems around the world, evaluation in terms of direct equivalence to specific Canadian credentials is not possible. For this reason IQAS placement recommendations are made in terms of “generally compares” to and not “equivalent” to.

When evaluating international credentials IQAS considers the following:
- the education system of the country concerned
- the recognition of the awarding institution
- the level, length and structure of the program

When appropriate IQAS may
- consider that comparison to a different level of education may more accurately reflect the level of the international credential in Canadian terms
- combine two or more credentials

<table>
<thead>
<tr>
<th>CREDENTIAL NAME</th>
<th>ENTRANCE REQUIREMENTS</th>
<th>LENGTH OF STUDY</th>
<th>IQAS RECOMMENDATION</th>
</tr>
</thead>
</table>
| Title of Bachiller (Baccalaureate) | Completion of Grade 9 | 2 years | Generally compares to the completion of a high school diploma.*  
  * If the program incorporated training in a specialized field, this should be acknowledged. |
<p>| Title of Técnico Profesional (Professional Technician) | Title of Bachiller, i.e., completion of Grade 11 | 2.5–3 years | Generally compares to the completion of a post-secondary certificate. |
| Title of Técnico Profesional Especialista (Specialist Professional Technician) | Title of Técnico Profesional in a particular area of study | 1–1.5 years | Generally compares to the completion of a post-secondary certificate. |
| Title of Tecnólogo/a (Technologist) | Title of Bachiller, i.e., completion of Grade 11 | 3 years | Generally compares to the completion of a post-secondary diploma. |
| Title of Tecnólogo/a Especialista (Specialist Technologist) | Title of Tecnólogo/a in a related area of study | 1–2 years | Generally compares to the completion of a post-secondary Diploma. |
| Title of Normalista Superior (teacher for preschool and elementary school levels) | Title of Bachiller con Profundización en Educación (Baccalaureate with a focus in education), i.e., completion of Grade 11 | 2 years | Generally compares to the completion of a post-secondary diploma. |
| Titles of Profesional (Professional), Licenciado/a (Licentiate), Maestro/a (Master) and other undergraduate degree titles | Title of Bachiller, i.e., completion of Grade 11 | 4–5 years | Generally compares to the completion of a four-year bachelor's degree. |</p>
<table>
<thead>
<tr>
<th>CREDENTIAL NAME</th>
<th>ENTRANCE REQUIREMENTS</th>
<th>LENGTH OF STUDY</th>
<th>IOAS RECOMMENDATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title of Odontólogo/a (Dentist)</td>
<td>Title of Bachiller, i.e., completion of Grade 11</td>
<td>5 years</td>
<td>Generally compares to the completion of a first professional university degree in dentistry.</td>
</tr>
</tbody>
</table>
| Title of Licenciado/a (Licentiato; i.e., undergraduate degree in education) | Title of Bachiller, i.e., completion of Grade 11 | 4–5 years | Generally compares to the completion of a four-year bachelor’s degree.*  
*If the program completed includes a sufficient number of education courses, it may be considered generally comparable to the completion of a four-year Bachelor of Education degree. |
| Title of Ingeniero/a (Engineer) | Title of Bachiller, i.e., completion of Grade 11 | 5 years | Generally compares to the completion of a four-year Bachelor of Science degree. |
| Title of Abogado/a (Lawyer) | Title of Bachiller, i.e., completion of Grade 11 | 5 years | Generally compares to the completion of a first professional university degree in law. |
| Title of Médico (Physician) or Médico y Cirujano (Physician and Surgeon) | Title of Bachiller, i.e., completion of Grade 11 | 6 years  
(5 years of theoretical and practical instruction + 1 year of rotation-based internship) | Generally compares to the completion of a first professional university degree in medicine. |
<p>| Title of Enfermera/o (Nurse) | Title of Bachiller, i.e., completion of Grade 11 | 4–5 years | Generally compares to the completion of a four-year Bachelor of Science degree. |
| Title of Fisioterapeuta (Physiotherapist) or Terapeuta Ocupacional (Occupational Therapist) | Title of Bachiller, i.e., completion of Grade 11 | 4–5 years | Generally compares to the completion of a four-year Bachelor of Science degree. |
| Title of Médico Veterinario (Veterinarian) | Title of Bachiller, i.e., completion of Grade 11 | 5 years | Generally compares to the completion of a first professional university degree in veterinary medicine. |
| Title of Especialista (Specialist) | Completion of an undergraduate degree in a particular area of study | 1–1.5 years; Up to 5 years for medical specializations | Generally compares to the completion of a graduate diploma. |
| Title of Magister (Master) | Completion of an undergraduate degree, normally in a related area of study | 2 years | Generally compares to the completion of a two-year master’s degree. |</p>
<table>
<thead>
<tr>
<th>CREDENTIAL NAME</th>
<th>ENTRANCE REQUIREMENTS</th>
<th>LENGTH OF STUDY</th>
<th>IQAS RECOMMENDATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title of <em>Magíster en Administración (de Negocios/ Empresas)</em> (Master of Business Administration, MBA)</td>
<td>Completion of an undergraduate degree</td>
<td>2 years</td>
<td>Generally compares to the completion of a Master of Business Administration (MBA) degree.</td>
</tr>
<tr>
<td>Title of <em>Doctor</em> (Doctor)</td>
<td>Completion of an undergraduate degree, normally in a related area of study; most applicants are admitted based on a master's degree</td>
<td>2–3 years following a master's degree 4–5 years following an undergraduate degree</td>
<td>Generally compares to the completion of a Doctor of Philosophy (PhD) degree.</td>
</tr>
</tbody>
</table>
## Appendix B—Comparison of Main Topics of the Five-Year and Ten-Year Education Plans


<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• modernization, decentralization and</td>
<td>• improved quality, coverage and</td>
<td>• education for the 21st century (e.g.,</td>
</tr>
<tr>
<td>participatory planning</td>
<td>diversification of education at all levels</td>
<td>continuous assessment, research,</td>
</tr>
<tr>
<td>• coordination of the various sectors</td>
<td>• democracy, civic participation and</td>
<td>technological knowledge, foreign</td>
</tr>
<tr>
<td>• qualitative change</td>
<td>peaceful coexistence</td>
<td>language education, vocational skills)</td>
</tr>
<tr>
<td>• expanded opportunities for access to</td>
<td>• national unity and identity, with respect</td>
<td>• increased modernization and integration</td>
</tr>
<tr>
<td>education and student retention</td>
<td>for cultural diversity</td>
<td>of science and technology (e.g., Internet</td>
</tr>
<tr>
<td>• widespread participation of the</td>
<td>• scientific and technological knowledge</td>
<td>and other information and communication technologies)</td>
</tr>
<tr>
<td>community</td>
<td>as tools for sustainable development and</td>
<td>• more and better investment in education</td>
</tr>
<tr>
<td>• scientific and technological development</td>
<td>environmental conservation</td>
<td>• continued reinforcement of values such as</td>
</tr>
<tr>
<td>• cultural development, including sports and</td>
<td>• elimination of factors leading to inequity in the access and</td>
<td>peace, coexistence and civic responsibility</td>
</tr>
<tr>
<td>recreation</td>
<td>quality of education</td>
<td>• equity in terms of access to schooling and</td>
</tr>
<tr>
<td>• efficient administration of financial</td>
<td>• an organic and more integrated national</td>
<td>retention and quality of education</td>
</tr>
<tr>
<td>resources</td>
<td>system of education</td>
<td>• external factors influencing school education</td>
</tr>
<tr>
<td></td>
<td>• improved management at all administrative levels</td>
<td>• early childhood development and</td>
</tr>
<tr>
<td></td>
<td>• increased recognition and</td>
<td>preschool education</td>
</tr>
<tr>
<td></td>
<td>professionalization of teaching</td>
<td>• improved leadership, management,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>transparency and accountability in the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>education sector</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• revision of pedagogical approaches to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>allow more active student participation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• continued professionalization of teaching</td>
</tr>
</tbody>
</table>
## Appendix C—Distribution of Administrative Duties Pertaining to Education at Various Levels

### C.1 School Education

<table>
<thead>
<tr>
<th>ADMINISTRATIVE LEVEL AND REPRESENTATIVE BODIES</th>
<th>CORE RESPONSIBILITIES</th>
</tr>
</thead>
</table>
| **National:** Ministry of National Education (Ministerio de Educación Nacional)—headed by the Minister of Education (Ministro de Educación); the Vice Minister of Preschool, Basic and Upper Secondary Education (Viceministro de Educación Preescolar, Básica y Media); and the Vice Minister of Higher Education (Viceministro de Educación Superior) | • Overall supervision of the entire system of education  
• Development of national norms, legislation, policies and plans  
• Financing of public education  
• Setting quality standards for basic competencies  
• Provision of information about Colombia’s system of education |
| Congress of the Republic (Congreso de la República)—only for passing legislation | |
| **Departmental, District and Municipal:** Secretariats of Education (Secretarias de Educación Departamentales, Distritales y Municipales) | • Policy implementation and supervision of the delivery of education at the respective levels  
• Advisory assistance with the design and development of curricula by the institutions within the secretariat’s jurisdiction  
• Distribution of educational funding  
• Development of regional legislation to complement national regulations  
• Licensing of institutions providing formal and non-formal education |
| **Institutional:** Individual schools—headed by a principal (rector), an executive committee (consejo directivo) and an academic committee (consejo académico) | • Provision of educational services  
• Policy implementation and supervision of the delivery of education at the institutional level  
• Design and development of detailed curricula for the institution  
• Annual evaluation of the institution and of the performance of the teaching and administrative staff |
| **Other bodies:**  
Education Boards (Juntas de Educación)  
Educational Forums (Foros Educativos)  
COLCIENCIAS—Colombian Institute for the Development of Science and Technology “Francisco José de Caldas” (Instituto Colombiano para el Desarrollo de la Ciencia y la Tecnología “Francisco José de Caldas”)  
COLCULTURA—Colombian Institute of Culture (Instituto Colombiano de Cultura)  
COLDEPORTES—Colombian Institute of Sport (Instituto Colombiano de Deporte) | • Boards: carrying out specific advisory, technical and administrative functions pertaining to education at the local, regional or national level  
• Forums: bringing together the educational community in order to critically reflect on issues pertaining to education and to make recommendations for improvement at the local, regional or national level  
• Institutes: participating in curriculum design and promoting other educational activities |
## C.2 Higher Education

<table>
<thead>
<tr>
<th>INSTITUTIONS AND BODIES</th>
<th>CORE RESPONSIBILITIES</th>
</tr>
</thead>
</table>
| Ministry of National Education (Ministerio de Educación Nacional)—post-secondary education division headed by the Vice Minister of Higher Education (Viceministro de Educación Superior) | • Overall supervision of the entire system of education  
• Development of national norms and legislation  
• Financing of public institutions  
• Quality assurance at the national level  
• Provision of information about Colombia’s system of education |
| Congress of the Republic (Congreso de la República)—only for passing legislation | |
| Post-secondary institutions—headed by a president (rector), an executive committee (consejo superior universitario) and an academic committee (consejo académico) | • Provision of educational services  
• Policy implementation and supervision of the delivery of education at the institutional level  
• Design and development of programs  
• Continuous internal evaluation and quality assurance |
| ICFES—Colombian Institute for the Promotion of Higher Education (Instituto Colombiano para el Fomento de la Educación Superior) | • Established in 1968; originally responsible for regulation and inspection of all matters pertaining to higher education  
• Development and administration of state examinations  
• Validation of foreign credentials |
| CESU—National Council of Higher Education (Consejo Nacional de Educación Superior) | • Main policy-making body in higher education  
• Works closely with the ministry; oversees CNA and CONACES |
| CAN—National Council of Accreditation (Consejo Nacional de Acreditación) | • Established in 1992 to develop and implement accreditation mechanisms for higher education programs and institutions |
| CONACES—National Cross-Sector Commission for the Quality Assurance of Higher Education (Comisión Nacional Intersectorial de Aseguramiento de la Calidad de la Educación Superior) | • Established in 2003 to ensure that all higher education programs and institutions meet basic quality requirements  
• Responsible for the initial evaluation and authorization of institutions and programs |
| ASCUN—Colombian Association of Universities (Asociación Colombiana de Universidades) | • Non-governmental and non-profit association established in 1957  
• Promotes a good working relationship among the universities and between the institutions and the government  
• Universities must meet numerous quality standards before they become members |
| ICETEX—Colombian Institute of Educational Credit and Technical Studies Abroad (Instituto Colombiano de Crédito Educativo y Estudios Técnicos en el Exterior) | • Provides educational loans and scholarships for Colombian students attending national and international institutions of higher education |
| COLCIENCIAS—Colombian Institute for the Development of Science and Technology “Francisco José de Caldas” (Instituto Colombiano para el Desarrollo de la Ciencia y la Tecnología “Francisco José de Caldas”) | • Promotes educational activities related to science and technology |
| OML—Labour Market Observatory (Observatorio del Mercado Laboral), also called the Labour Observatory for Education (Observatorio Laboral para la Educación) | • Collects and disseminates labour market information to assist institutions in program design and students in decision making |
## C.3 Technical and Vocational Education (at the Level of Education for Employment and Human Development)

<table>
<thead>
<tr>
<th>Institutions and Bodies</th>
<th>Core Responsibilities</th>
</tr>
</thead>
</table>
| **SENA**—National Apprenticeship Service (Servicio Nacional de Aprendizaje)—headed by representatives of the ministries listed below and other institutions from the public and private sectors | • Established in 1957; works closely with the ministries listed below and with private sector enterprises  
• Develops policy and programs pertaining to technical and vocational training; delivers technical and vocational education at its centres  
• Responsible for the National System of Education for Employment (Sistema Nacional de Formación para el Trabajo) or SNFT, aimed at fostering cooperation among all institutions involved in the provision of technical and vocational education  
• Administers several non-educational programs promoting socio-economic development of the country                                                                 |
| **Congress of the Republic** (Congreso de la República)—only for passing legislation |                                                                                                                                                                                                                       |
| **Ministry of National Education** (Ministerio de Educación Nacional) | • Assists SENA with policy development, program design and quality assurance  
                                                                                                               |
| **Ministry of Social Protection** (Ministerio de Protección Social)—created in 2002 by joining the Ministry of Health (Ministerio de Salud) with the Ministry of Labour and Social Security (Ministerio de Trabajo y Seguridad Social) | • Responsible for verification of quality and issuing of authorizations for programs in assistant health care professions  
                                                                                                               |
| **National Executive Committee for Development of Human Resources in Health** (Comité Ejecutivo Nacional para el Desarrollo de los Recursos Humanos en Salud) |                                                                                                                                                                                                                       |
| **Ministry of Commerce, Industry and Tourism** (Ministerio de Comercio, Industria y Turismo) | • Assists SENA with policy and program development  
                                                                                                               |
| **Departmental, District and Municipal Secretariats of Education** (Secretarias de Educación Departamentales/Distritales/ Municipales) | • Licensing of institutions providing technical and vocational education  
• Verification of the quality of programs and issuing of program registrations  
• Provision of information to the public about technical and vocational programs available regionally  
                                                                                                               |
| **Educational institution**—headed by a director (director) and an academic coordinator (coordinador académico) | • Provision of educational services  
• Policy implementation and supervision of the delivery of education at the institutional level  
                                                                                                               |
| **Private enterprises** | • Provision of funding for SENA programs through taxation  
• Assisting SENA with policy and program development  
• Provision of apprenticeships  
                                                                                                               |
### Appendix D—Sample School Curriculum with Hourly Distribution

<table>
<thead>
<tr>
<th>SUBJECT AREA</th>
<th>PRESCHOOL (TRANSITION GRADE ONLY)</th>
<th>ELEMENTARY (GRADES 1–5)</th>
<th>LOWER SECONDARY (GRADES 6–9)</th>
<th>UPPER SECONDARY (GRADES 10–11)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics and geometry</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>6(1)* 5(2–5)</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Geometry (1st semester);</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistics and probabilities (2nd semester)</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Writing</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spanish language</td>
<td>5</td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Spanish</td>
<td>5(0)</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Orthography</td>
<td>1</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Reading</td>
<td>2</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural sciences</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social sciences</td>
<td>2</td>
<td>3(1) 4(2–5)</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Philosophy; Economic and political sciences</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Specialization</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physics</td>
<td></td>
<td></td>
<td></td>
<td>2(8–9)</td>
</tr>
<tr>
<td>Chemistry</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>English</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>Technology and computing</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Artistic education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td>2</td>
<td>1</td>
<td>2(6–7) 1(8–9)</td>
<td>1</td>
</tr>
<tr>
<td>Music</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Physical education, recreation and sports</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Ethics and values</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Religious education</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Professional orientation</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Extra classes</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>35</strong></td>
<td><strong>40</strong></td>
<td><strong>40</strong></td>
<td><strong>40</strong></td>
</tr>
</tbody>
</table>


* The numbers in parentheses correspond to grades. For example, “6(1) 5(2–5)” means that the subject is taught six hours per week in Grade 1 and five hours per week in Grades 2 through 5.
## Appendix E—Comparing Duration of Undergraduate Degree Programs at Colombian Universities*

<table>
<thead>
<tr>
<th>UNDERGRADUATE DEGREE PROGRAM</th>
<th>UNIVERSIDAD NACIONAL DE COLOMBIA</th>
<th>UNIVERSIDAD DE LOS ANDES</th>
<th>PONTIFICIA UNIVERSIDAD JAVERIANA</th>
<th>UNIVERSIDAD COLEGIO MAYOR DE NUESTRA SEÑORA DEL ROSARIO</th>
<th>UNIVERSIDAD SANTO TOMÁS</th>
<th>UNIVERSIDAD INDUSTRIAL DE SANTANDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting/Public Accounting</td>
<td>10 sem</td>
<td>–</td>
<td>8–10 sem 160 cr</td>
<td>–</td>
<td>10 sem</td>
<td>–</td>
</tr>
<tr>
<td>Business Administration</td>
<td>10 sem</td>
<td>8 sem 137 cr</td>
<td>8–10 sem 160 cr</td>
<td>10 sem 208 cr</td>
<td>9 sem</td>
<td>–</td>
</tr>
<tr>
<td>Law</td>
<td>10 sem</td>
<td>10 sem 180 cr</td>
<td>10 sem 168 cr</td>
<td>10 sem 218 cr</td>
<td>10 sem 161 cr</td>
<td>10 sem 203 cr</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>10 sem</td>
<td>8 sem 137 cr</td>
<td>–</td>
<td>–</td>
<td>10 sem</td>
<td>10 sem 190 cr</td>
</tr>
<tr>
<td>Medicine**</td>
<td>12 sem</td>
<td>12 sem 240 cr</td>
<td>12 sem 268 cr + internship</td>
<td>12 sem 263 cr</td>
<td>–</td>
<td>12 sem 210 cr + internship</td>
</tr>
<tr>
<td>Dentistry</td>
<td>10 sem</td>
<td>–</td>
<td>8–10 sem 171 cr</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Physiotherapy</td>
<td>8 sem 157 cr</td>
<td>–</td>
<td>–</td>
<td>10 sem 170 cr</td>
<td>–</td>
<td>10 sem 188 cr</td>
</tr>
</tbody>
</table>


* Sem = semesters; cr = credits

** The last two semesters of all programs in medicine consist of clinical internships.

Note: Duration of programs and number of credits can change from year to year. The most up-to-date information can be obtained directly from the institutions.
### Appendix F—Typical Length of Most Common Medical Specializations and/or Residency Training

<table>
<thead>
<tr>
<th>Specialization</th>
<th>Duration (in Semesters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Medicine (Medicina Interna)</td>
<td>6</td>
</tr>
<tr>
<td>Pediatrics (Pediatría)</td>
<td>6</td>
</tr>
<tr>
<td>Gynecology and Obstetrics (Ginecología y Obstetricia)</td>
<td>6–8</td>
</tr>
<tr>
<td>Anesthesiology and Reanimation (Anestesiología y Reanimación)</td>
<td>6</td>
</tr>
<tr>
<td>General Surgery (Cirugía General)</td>
<td>6–8</td>
</tr>
<tr>
<td>Ophthalmology (Oftalmología)</td>
<td>6–8</td>
</tr>
<tr>
<td>Orthopedics and Traumatology (Ortopedia y Traumatología)</td>
<td>8</td>
</tr>
<tr>
<td>Radiology and Imaging (Radiología e Imágenes)</td>
<td>6–8</td>
</tr>
<tr>
<td>Neurosurgery (Neurocirugía)</td>
<td>8–10</td>
</tr>
<tr>
<td>Otorhinolaryngology (Otorrinolaringología)</td>
<td>6–8</td>
</tr>
<tr>
<td>Psychiatry (Psiquiatría)</td>
<td>6</td>
</tr>
<tr>
<td>Urology (Urología)</td>
<td>6–8</td>
</tr>
<tr>
<td>Pediatric Surgery (Cirugía Pediátrica)</td>
<td>4–6</td>
</tr>
<tr>
<td>Cardiovascular Surgery (Cirugía Cardiovascular)</td>
<td>4–6</td>
</tr>
<tr>
<td>Plastic and Maxillofacial Surgery (Cirugía Plástica y Maxillofacial)</td>
<td>8–10</td>
</tr>
<tr>
<td>Dermatology (Dermatología)</td>
<td>6–8</td>
</tr>
<tr>
<td>Pain and Palliative Care (Dolor y Cuidado Paliativo)</td>
<td>2–6</td>
</tr>
<tr>
<td>Physical Medicine and Rehabilitation (Medicina Física y Rehabilitación)</td>
<td>4–6</td>
</tr>
</tbody>
</table>
Appendix G—Sample Regulated Professions in Colombia (2007)

Business Management, Economy and Administration

- Agricultural administrator (Aministrador de empresas agropecuarias, Administrador agrícola, or Administrador agropecuario)
- Business administrator (Administrador de empresas or Administrador de negocios)
- Economist (Economista)
- Public accountant (Contador público)
- Public administrator (Administrador público)

Health-Related Professions

- Anesthesiologist (Anestesiólogo)
- Bacteriologist (Bacteriólogo)
- Chemical pharmacist (Químico farmacéutico)
- Clinical laboratorian (Laboratorista clínico)
- Dentist (Odontólogo)
- Microbiologist (Microbiólogo)
- Nurse (Enfermera)
- Nutritionist and dietician (Nutricionista y dietético)
- Optometrist (Optometrista)
- Pharmacist (Farmacéutico)
- Pharmacy technologist (Tecnólogo en regencia de farmacia)
- Phonoaudiologist (Fonoaudiólogo)
- Physician and surgeon (Médico y cirujano)
- Physiotherapist (Fisioterapeuta)
- Radiologist (Radiólogo)
- Technical surgical instrumentalist (Instrumentalista técnico quirúrgico)
- Veterinarian (Médico veterinario)

Engineering-Related Professions and Assistant Occupations*

- Agricultural engineer (Ingeniero agrícola)
- Agronomic engineer (Ingeniero agronómico)
- Architect (Arquitecto)
- Chemical engineer (Ingeniero químico)
- Construction technician (Técnico constructor)
- Electrical engineer (Ingeniero eléctrico)
- Electrical technologist (Tecnólogo en electricidad)
- Electrical technician (Técnico electricista)
- Electromechanical technologist (Tecnólogo en electromecánica)
- Electronic technologist (Tecnólogo en electrónica)
- Fishing engineer (Ingeniero pesquero)
- Forest engineer (Ingeniero forestal)
- Geologist (Geólogo)
- Industrial designer (Diseñador industrial)
- Mechanical engineer (Ingeniero mecánico)
- Naval engineer (Ingeniero naval)
- Petroleum engineer (Ingeniero de petróleos)
- Topographer (Topógrafo)
- Transportation and road engineer (Ingeniero de transportes y vías)

* Assistant occupations in engineering include professional technicians and technologists in the following fields:

- agroindustry (agroindustriales)
- civil works (en obras civiles)
- construction (constructores)
- drafting for engineering purposes (delineantes en ingeniería)
- food (en alimentos)
- hydraulics and sanitation (hidráulicos y sanitarios)
- industry (industriales)
- laboratory work (laboratoristas)
- master builders or foremen (maestros de obra) in construction with 10 years of documented experience
- mining (en minas)
- programming (programadores)
- system analysis (analistas de sistemas)
- systems or computing (en sistemas o en computación)
- teleinformatics (teleinformáticas)
- topography (en topografía)
Other Professions

- Agrologist (Agrólogo)
- Agronomist (Agrónomo)
- Biologist (Biólogo)
- Chemist (Químico)
- Cosmetologist (Cosmetólogo)
- Family development professional (Profesional en desarrollo familiar)
- Geographer (Geógrafo)
- International relations professional (Profesional en relaciones internacionales) and related professions
  - Lawyer (Abogado)
  - Library Technologist (Bibliotecólogo)
  - Licentiate in education sciences (Licenciado en ciencias de la educación), all specializations
  - Photography technician (Técnico de fotografía)
  - Photography technologist (Tecnólogo de fotografía)
  - Secretary (Secretaria)
  - Social worker (Trabajador social)
  - Statistician (Estadístico)
  - Travel agent (Agente de viajes)
  - Tourist guide (Guía de turismo)
Appendix H—Professional Registration and Licensing Bodies for Selected Professions (2007)

Public Accountancy (Contaduría Pública)
The Central Board of Accountants (Junta Central de Contadores), affiliated with the Ministry of National Education, issues professional licenses.

Business Administration (Administración de Empresas/ Negocios)
Professional licenses are issued by the Professional Council of Business Administration (Consejo Profesional de Administración de Empresas), an administrative unit of the Ministry of Commerce, Industry and Tourism (Ministerio de Comercio, Industria y Turismo), formerly known as the Ministry of Economic Development (Ministerio de Desarrollo Económico).

Dentistry (Odontología)
Professional licenses are issued by regional Secretariats or Directorates of Health (Secretarías o Direcciones de Salud), acting on behalf of the Ministry of Social Protection (Ministerio de Protección Social), which encompasses the former Ministry of Health (Ministerio de Salud). See Notes 1 and 2 below for additional information.

Engineering (Ingeniería)
Professional licenses are issued by the following councils and ministry:

- Professional Council of Electrical and Mechanical Engineering and Related Professions (Consejo Profesional de Ingenierías Eléctrica, Mecánica y Profesiones Afines)—for electrical, mechanical, nuclear, metallurgical, telecommunications, aeronautical, electronic, electromechanical and naval engineers
- Professional Council of Chemical Engineering (Consejo Profesional de Ingeniería Química)—for chemical engineers
- Professional Council of Petroleum Engineering (Consejo Profesional de Ingeniería de Petróleos)—for petroleum engineers
- Professional Council of Transport and Road Engineering (Consejo Profesional de Ingeniería de Transportes y Vías)—for transport and road engineers
- Ministry of Agriculture and Rural Development (Ministerio de Agricultura y Desarrollo Rural)—for forest, agricultural and agronomic engineers
- Professional Council of Fishing Engineering (Consejo Profesional de Ingeniería Pesquera)—for fishing engineers
- National Professional Council of Engineering (Consejo Profesional Nacional de Ingeniería)—for all remaining engineers.

All of the above councils work in close cooperation with the Ministry of National Education and other relevant ministries.

Law (Derecho)
Professional licenses are issued by a regional branch (seccional) of the Superior Council of the Judiciary (Consejo Superior de la Judicatura), affiliated with the Ministry of Justice (Ministerio de Justicia).

Medicine (Medicina)
In the past, professional licenses were issued to physicians by the regional Secretariats or Directorates of Health (Secretarías o Direcciones de Salud), representing the Ministry of Health (Ministerio de Salud). As of 2002, physicians can apply for professional registration either directly to the General Directorate of Analysis and Policy of Human Resources (Dirección General de Análisis y Política de Recursos Humanos) or to the existing regional Secretariats or Directorates of Health, both of which are affiliated with the Ministry of Social Protection (Ministerio de la Protección Social). See Notes 1 and 2 (below) for additional information.

Nursing (Enfermería)
Professional licenses are issued to nurses by the regional Secretariats or Directorates of Health (Secretarías o Direcciones de Salud), representing the former Ministry of Health (Ministerio de Salud) and the current Ministry
of Social Protection (Ministerio de la Protección Social). Professional registration is often solicited through the National Association of Nurses of Colombia (Asociación Nacional de Enfermeras de Colombia). See Notes 1 and 2 (below) for additional information.

Physiotherapy (Fisioterapia)
Professional licenses are issued to physiotherapists by the regional Secretariats or Directorates of Health (Secretarias o Direcciones de Salud), representing the former Ministry of Health (Ministerio de Salud) and the current Ministry of Social Protection (Ministerio de la Protección Social). Officially, the National Professional Council of Physiotherapy (Consejo Profesional Nacional de Fisioterapia) was established in 1999, but no information is available about its activities.

Notes
1. Obligatory Social Service (Servicio Social Obligatorio)
Completing obligatory social service (servicio social obligatorio) is a unique requirement for students who graduate from technological and undergraduate programs in bacteriology, dentistry, medicine and nursing and who are applying for a professional license. In order to fulfill this requirement, recent graduates must spend six to 12 months at officially pre-approved locations in rural and disadvantaged areas of the country. The obligatory social service is seen as a contribution of health care professionals to Colombia’s overall development. It is also a way for them to get acquainted with the realities of providing health care under difficult circumstances. Graduates can complete their service by providing health care services, teaching the locals about health issues or conducting research on relevant topics. If the number of available graduates exceeds the number of health care professionals needed, the selection is based on a draw.

2. Recent reforms for medical professions
Decree 1164, enacted in October 2007, brought significant changes to the ways in which medical professions are licensed and exercised in Colombia:
- It established the National Council of Human Talent in Health (Consejo Nacional del Talento Humano en Salud), a government body in charge of planning, regulating and supervising all activities pertaining to the education of health care professionals and the exercise of medical professions in Colombia.
- It expanded the obligatory social service to include graduates from higher education programs in all medical fields (not only bacteriology, dentistry, medicine and nursing).
- It created a Unique National Registry (Registro Único Nacional), which is to serve as one single registry for all medical professionals and health care support staff.
- It delegated certain public responsibilities of the Ministry of Public Protection (for example, professional registration, issuing of professional licenses) to the professional colleges (colegios profesionales) in each medical field (for example, Colegio Médico Colombiano).
- It decreed a process of certification and periodic re-certification for all medical professionals and health care support staff. Details of this remain to be defined by additional decrees.

Thus far, the reforms introduced by Decree 1164 are largely theoretical and are being implemented gradually.
### Appendix I—Sample Upper Secondary and Post-Secondary Diploma Cycle Curricula for Training Preschool and Elementary School Teachers, with Weekly Hours of Instruction

| UPPER SECONDARY SCHOOL PROGRAM  
(BACHILLERATO CON PROFUNDIZACIÓN EN EDUCACIÓN) | POST-SECONDARY DIPLOMA CYCLE IN TEACHER TRAINING  
(CICLO COMPLEMENTARIO) | SEMESTERS I & II (GRADE 12) | SEMESTERS III & IV (GRADE 13) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADE 10</td>
<td>GRADE 11</td>
<td>SEMESTERS I &amp; II (GRADE 12)</td>
<td>SEMESTERS III &amp; IV (GRADE 13)</td>
</tr>
<tr>
<td>Fundamentals of pedagogy 2 hrs</td>
<td>History of the lives of teachers 2 hrs</td>
<td>Pedagogy (19th to 20th century) 3 hrs</td>
<td>Pedagogy (20th century to the present) 2 hrs</td>
</tr>
<tr>
<td>Psychology of preschool children 2 hrs</td>
<td>Self-recognition 1 hr</td>
<td>Theory and curriculum design 2 hrs</td>
<td>Theory and curriculum design 4 hrs</td>
</tr>
<tr>
<td>Physics 4 hrs</td>
<td></td>
<td>Teaching methods for mathematics 4 hrs</td>
<td></td>
</tr>
<tr>
<td>Chemistry 4 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trigonometry 4 hrs</td>
<td>Calculus 4 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social sciences, history, geography, political constitution and democracy 2 hrs</td>
<td>Teaching methods for social sciences 4 hrs</td>
<td>Teaching methods for natural sciences 4 hrs</td>
<td></td>
</tr>
<tr>
<td>Philosophy 2 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economic and political sciences 2 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Society, culture and education 1 hr</td>
<td>Educational activities for the city 2 hrs</td>
<td>Colombian sign language 1 hr</td>
<td>Children's literature 3 hrs</td>
</tr>
<tr>
<td>English language 4 hrs</td>
<td></td>
<td>Drama 2 hrs</td>
<td></td>
</tr>
<tr>
<td>Spanish language 4 hrs</td>
<td></td>
<td>Children's literature 3 hrs</td>
<td></td>
</tr>
<tr>
<td>Practicum: Preschool education workshop 3 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teaching aids and media 1 hr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Children's music 1 hr</td>
<td>Teaching methods for arts education (drawing and music) 3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical education 2 hrs</td>
<td>Teaching methods for physical education 2 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education in ethics and human values 1 hr</td>
<td>Teaching methods for ethics 2 hrs (semester I only)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| UPPER SECONDARY SCHOOL PROGRAM  
(BACHILLERATO CON PROFUNDIZACIÓN EN EDUCACIÓN) | POST-SECONDARY DIPLOMA CYCLE IN TEACHER TRAINING  
(CICLO COMPLEMENTARIO) |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GRADE 10</strong></td>
<td><strong>GRADE 11</strong></td>
</tr>
</tbody>
</table>
| Religious education  
1 hr | | Teaching methods for religious education  
2 hrs (semester II only) | |
| Technology  
1 hr | | | Teaching methods for technology  
3 hrs |

**Total: 40–41 hours of instruction per week**

Source: Retrieved 19 March 2008 from Escuela Normal Superior de Bucaramanga website: www.normalbucaramanga.edu.co/
## Appendix J—Basic Curricular Structure of Undergraduate Programs in Education

<table>
<thead>
<tr>
<th>TIME PERIOD</th>
<th>AREAS OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semesters I – III (or I – IV)*</td>
<td>Oral and written communication</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of pedagogy and teaching</td>
</tr>
<tr>
<td></td>
<td>History of education and pedagogy</td>
</tr>
<tr>
<td></td>
<td>Education – society – values</td>
</tr>
<tr>
<td></td>
<td>Introduction to scientific knowledge, philosophy, epistemology</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of research</td>
</tr>
<tr>
<td></td>
<td>General psychology</td>
</tr>
<tr>
<td></td>
<td>Pedagogical practica (only for some programs)</td>
</tr>
<tr>
<td>Semesters IV – VII (or V – VIII)*</td>
<td>Specialization or subject area focus</td>
</tr>
<tr>
<td></td>
<td>Teaching methodology associated with the discipline</td>
</tr>
<tr>
<td></td>
<td>Curriculum and evaluation</td>
</tr>
<tr>
<td></td>
<td>Research methodology</td>
</tr>
<tr>
<td></td>
<td>Psychology of learning</td>
</tr>
<tr>
<td></td>
<td>Computing and technology for teaching purposes</td>
</tr>
<tr>
<td></td>
<td>Elective subjects</td>
</tr>
<tr>
<td></td>
<td>Pedagogical practica (for most programs)</td>
</tr>
<tr>
<td>Semesters VIII – X (or IX – XII)*</td>
<td>Politics and educational legislation</td>
</tr>
<tr>
<td></td>
<td>Final project (in most cases related with the pedagogical practica)</td>
</tr>
<tr>
<td></td>
<td>Pedagogical practica</td>
</tr>
</tbody>
</table>


* The time period indicated in parenthesis applies to undergraduate programs in education completed as evening study or through distance education.
Appendix K—Documentation

Upper Secondary Education

Diploma (Exhibits 1 to 4)

1. **National and institutional names and symbols**: The diplomas are issued by the school in the name of the republic; hence, the phrase “La República de Colombia y en su nombre + name of school” often appears on top of the credential along with the Colombian coat of arms. The symbol of the school or the national coat of arms may also be incorporated into the document as a background image.

2. **Authorization**: Under the school name, there is always a reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the school to operate and grant titles.

3. **Student’s name and identification**: Students from Spanish-speaking countries usually have a first name, a middle name, a paternal surname and a maternal surname. Along with the student’s names, the number of their identification document and the city where it was issued always appear on the credential. For those below the age of 18, the main identification document is the Tarjeta de Identidad (identity card), abbreviated as TI. For those 18 years and older, it is the Cédula de Ciudadanía (citizenship card), abbreviated as CC.

4. **Program information and title**: The diploma clearly states the level (nivel) of education completed by the student and the title (título) being awarded along with the specialization (modalidad).

5. **Diploma number and inscription reference**: All diplomas are registered (anotado or registrado) in the school records. The number of the book (libro) and the folio (folio) where the diploma was inscribed appear toward the bottom of the document. Each diploma typically has its own individual number (diploma no. or simply no.) stated on the document. If the diploma is a duplicate (duplicado), this fact is also indicated.

6. **Signatures**: The diploma should be signed by the school principal (rector) and the secretary (secretario) or administrative director (subdirector administrativo). The ink stamps and identification numbers of the signatories may also appear on the document.

7. **Place and date of issue**.
EXHIBIT 1. ACADEMIC BACCALAUREATE DIPLOMA – BACHILLER ACADÉMICO (2002)
EXHIBIT 2. BACCALAUREATE DIPLOMA IN SOCIAL SERVICE – BACHILLER EN PROMOCIÓN SOCIAL
ISSUED BY AN INEM (1983)
EXHIBIT 3. BACCALAUREATE DIPLOMA IN TEACHER EDUCATION – MAESTRA BACHILLER (1987–88)
EXHIBIT 4. BACCALAUREATE DIPLOMA IN TEACHER EDUCATION – BACHILLER PEDAGÓGICO (1987–88)
Graduation Record (Exhibit 5)

1. Name and symbol of the educational institution.
2. Institutional information: Information about the legal status of the school, the specific titles the school is authorized to award, and a reference to a resolution (resolución), decree (decreto) or law (ley) with regard to the above points is addressed in the first part.
3. Graduation record number: Graduation records may or may not be numbered. (This information does not appear in the sample document in Exhibit 5.)
4. Student’s name and identification.
5. Level of education completed.
6. Inscription reference: Since all graduating students are registered in the school’s administrative records, the book (libro) and the folio (folio) where they were inscribed are mentioned on the document.
7. Signatures: The record should be signed by the school principal (rector) or director (director) and the secretary (secretario). Ink stamps of the signatories may also appear along with the numbers of their identification documents.
8. Place and date of issue.
EXHIBIT 5. GRADUATION RECORD FOR A BACCALAUREATE DIPLOMA
(ISSUED IN 2003 FOR THE TITLE AWARDED IN 1983)

Note: The corresponding diploma is shown in Exhibit 2.
The transcript (exhibits 6 and 7)

1. Name and symbol of the educational institution.
2. Authorization: A reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the school to operate and grant titles may or may not appear on the transcript.
3. Transcript number: The transcripts may or may not be numbered. The transcript number can also be referred to as the certificate number (certificado no.).
4. Student’s name and identification.
5. Program information and level of education completed: The transcript clearly states the grade (grado) and/or level of education completed by the student.
6. Subjects, hours and grades: All the subjects (asignaturas) taken within the period specified on the transcript should be listed along with the number of hours of instruction per week (intensidad horaria, IH; horas semanales, HS; or intensidad horaria semanal, IHS). The final grades (notas, evaluación, valoración, calificaciones or resultados) for each subject are indicated either as descriptive grades (for example, acceptable) or as numbers with the numerical value written out in words as well (for example: 6.5, seis cinco). Comments about the student’s behaviour (comportamiento) and other observations (observaciones) can be included on transcripts, too.
7. Signatures: The transcript should be signed by at least one person: the school principal (rector), the secretary (secretario) or both. Ink stamps of the signatories may also appear.
8. Place and date of issue.
EXHIBIT 6. TRANSCRIPT FOR GRADE 11, SHOWING ONLY DESCRIPTIVE GRADES (2002)

Note: The corresponding diploma is shown in Exhibit 1.
### Exhibit 7. Transcript for Grade 11, Showing Only Numerical Grades (Issued in 2003 for Studies Completed in 1983)

Note: The corresponding diploma is shown in Exhibit 2.

1. **Institución Educativa “Manuel Murillo Toro” INEM - Ibague**

2. El Rector de la Institución Educativa “Manuel Murillo Toro” INEM-Ibague, con aprobación de estudios de Educación Básica secundaria y Media Vocacional mediante Resolución No. 9360 del 24 de mayo de 1984, con reconocimiento oficial para estudios de Pre-escolar, Básica y Media según Resolución No. 1228 del 3 de octubre de 2002, con Registro de la Secretaría de Educación No. 131006 y 131007

Nombre del DANE: 173001001053

3. **Certificado No.** 1152

4. Que: [Name] identificado con [ID] n°. de [Identification Number]

5. **Curso en el grado** UNDECIMO [Eleventh Grade]

   **Correspondientes al ciclo de:**

   **Educación Básica Secundaria Area:** [Secondary Basic Area]

   **Modalidad:** [Modality]

6. **Asignaturas Núcleo Común**

<table>
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<tr>
<td>Español y Literatura</td>
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<td>Educ. Física Recreación y Deportes</td>
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7. **Asignaturas de Educación Ocupacional**:

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<tr>
<td>Practicas de Campo</td>
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8. **Comportamiento**

   **Observaciones:** [Remarks]

   **Promedio Bachiller:**

   **Se expide el presente certificado en Ibague, el [Date]:** [Seis] (6) de OCTUBRE, X.X. DE DOS MIL TRES (2003).

   **El Rector:**

   [Signature: Oscar William Bravo Monr de Ibague]
Diploma Registry (Exhibits 8 to 16)

Exhibit 8. Reverse Side of a Bachiller Diploma
1. Ink stamps and signature of the notary.

EXHIBIT 9. NOTARIAL STAMPS

2. Ink stamps and signatures of representatives of the Secretariat of Education.


EXHIBIT 11. STAMP AND SIGNATURE CONFIRMING THAT THE DOCUMENT WAS INSPECTED BY THE OFFICE OF THE DIPLOMA REGISTRY
3. Adhesive stamps indicating payment of fees for issuing the diploma and for its registration (may appear on some credentials). These stamps are different from regular postage stamps. Postage stamps do not have serial numbers (for example, B8268134).

EXHIBIT 13. ADHESIVE FEE STAMPS
4. The Ministry of Exterior Relations (Ministerio de Relaciones Exteriores) and/or

EXHIBIT 14. LEGALIZATION STAMP OF THE MINISTRY OF EXTERIOR RELATIONS
WITH THE SIGNATURE OF A MINISTRY OFFICIAL

5. the Ministry of National Education (Ministerio de Educación Nacional).

EXHIBIT 15. AUTHENTICATION STAMP OF THE MINISTRY OF NATIONAL EDUCATION
WITH THE SIGNATURE OF A MINISTRY OFFICIAL
EXHIBIT 16. THE APOSTILLE – FORMER COLOUR FORMAT (JANUARY 2001 TO OCTOBER 2007) AND CURRENT BLACK-AND-WHITE FORMAT
EXHIBIT 17. SAMPLE RESULTS OF THE STATE EXAMINATION FOR ADMISSION TO HIGHER EDUCATION

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1: Competencia Interprotativa  
A: Competencia Argumentativa  
P: Competencia Proposita

PUNTAJE INTERDISCIPLINAR

VIOLENCIA Y SOCIEDAD 33.84
Higher Education

Diploma (Exhibits 18 to 28)

1. **National and institutional names and symbols:** As of 1992, post-secondary academic titles are granted directly by the institutions, which have full authority over the format and content of the diploma certificates they issue. This is why the name and symbol of the institution features more prominently on post-secondary documents than do national symbols. The Ministry of National Education is often mentioned on higher education credentials.

2. **Authorization:** Under the institution’s name, reference often appears to a resolution (resolución), decree (decreto) or law (ley) authorizing the institution to operate and grant titles.

3. **Student’s name and identification.**

4. **Program information and title:** The diploma clearly states the title awarded. All academic titles may be preceded by phrases like título de (title of), título profesional de (professional title of), diploma de (diploma of) or grado de (degree of). The program registration number (código ICFES, registro ICFES, or código SNIES) may appear both on the diploma certificate and the graduation record.

5. **Diploma number and inscription reference:** All diplomas are registered (anotado or registrado) in the institutional records. The number of the book (libro) and the folio (folio) where the diploma was inscribed appear toward the bottom of the document. Most diplomas also have their number (diploma no. or simply no.) stated on the document. If the diploma is a duplicate (duplicado), this fact is also indicated.

6. **Signatures:** All diplomas must be signed by the institution’s head authorities, such as the president (rector), dean of the faculty (decano de la facultad), general secretary (secretario general) and/or academic director (director académico).

7. **Place and date of issue.**
EXHIBIT 18. TITLE OF PROFESSIONAL TECHNICIAN IN TEXTILE DESIGN (1988), POST-SECONDARY DIPLOMA PROGRAM (TECHNICAL)
EXHIBIT 19. TITLE OF PROFESSIONAL TECHNICIAN IN INDUSTRIAL RELATIONS ISSUED BY SENA (1997), POST-SECONDARY DIPLOMA PROGRAM (TECHNICAL)
EXHIBIT 20. TITLE OF SYSTEMS TECHNOLOGIST (2005), POST-SECONDARY DIPLOMA PROGRAM (TECHNOLOGICAL)
EXHIBIT 21. TITLE OF BUSINESS MANAGER (2001), UNDERGRADUATE DEGREE PROGRAM

EXHIBIT 22. TITLE OF MASTER IN TEXTILES (1998), UNDERGRADUATE DEGREE PROGRAM
EXHIBIT 23. TITLE OF LICENTIATE IN SPECIAL EDUCATION FOR DELAYED DEVELOPMENT (1988), UNDERGRADUATE DEGREE PROGRAM

La Universidad Pedagógica Nacional

PROGEO DE LA REPÚBLICA DE COLOMBIA

Y POR AUTORIZACIÓN DEL

MINISTERIO DE EDUCACIÓN NACIONAL

CUMPLIÓ SATISFACTORIAMENTE LOS REQUISITOS REGLAMENTARIOS DEL PROGRAMA, LE CONFIEREL TÍTULO DE

LICENCIADO

CON ESTUDIOS EN

Educación Especial

Retardo en el Desarrollo

BOGOTA, D.E. A LOS 5 DIAS DEL MES DE AGOSTO DE 1988

ALCALDE MAYOR DE BOGOTA

SECRETARIO DE EDUCACION

ANOTADO AL FOLIO 145 DEL LIBRO DE DIPLOMAS N° 88

EXHIBIT 24. TITLE OF LICENTIATE IN PRESCHOOL EDUCATION (1996), UNDERGRADUATE DEGREE PROGRAM
EXHIBIT 25. TITLE OF SPECIALIST IN HIGHER MANAGEMENT (2001), GRADUATE-LEVEL SPECIALIZATION PROGRAM

EXHIBIT 26. TITLE OF MASTER OF ADMINISTRATION (2006), GRADUATE DEGREE PROGRAM
EXHIBIT 27. TITLE OF DOCTOR OF ENGINEERING (2006), GRADUATE DEGREE PROGRAM

EXHIBIT 28. DESIGNATION OF DIPLOMA HOLDER IN COMMUNITY MANAGEMENT AND SOCIAL MANAGEMENT (2000), PROFESSIONAL DEVELOPMENT PROGRAM

Note: This document is not a degree certificate and hence does not possess all the specified characteristics.
Graduation Record (Exhibit 29)

1. **Name and symbol of the educational institution**: Apart from the institution, the faculty from which the student graduated should also be mentioned.

2. **Institutional information**: Information about the legal status of the institution, the specific titles the institution is authorized to award, and a reference to a resolution (resolución), decree (decreto) or law (ley) with regard to the above points may or may not appear on post-secondary graduation records. (This information does not appear in the sample document in Exhibit 29.)

3. **Graduation record number**: Graduation records may or may not be numbered.

4. **Student’s name and identification**.

5. **Level of education completed**: Apart from the title awarded, the program registration number (código ICFES, registro ICFES or código SNIES) may appear on the graduation record.

6. **Additional information**: Post-secondary graduation records frequently mention details such as the institutional authorities present at the graduation ceremony or the title of the student’s final project.

7. **Inscription reference**: Since all graduation ceremonies and diplomas awarded are registered (anotado or registrado) in the institutional records, the number of the corresponding book (libro) and the folio (folio) are mentioned on the document.

8. **Signatures**: The record should be signed by the institution’s head authorities, such as the president (rector), dean of the faculty (decano de la facultad), general secretary (secretario general) and/or academic director (director académico).

9. **Place and date of issue**.
EXHIBIT 29. GRADUATION RECORD FOR THE TITLE OF BUSINESS ADMINISTRATOR (2001)

Note: The corresponding diploma is shown in Exhibit 21.
Transcript (Exhibit 30)

1. **Name and symbol of the educational institution:** The institution’s name and symbol frequently appear as a background image or as part of the security features on the document.

2. **Authorization:** A reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the school to operate and grant titles may or may not appear on the transcript. (This information does not appear in the sample document in Exhibit 30.)

3. **Transcript number:** The transcripts may or may not be numbered. (This information does not appear in the sample document in Exhibit 30.)

4. **Student’s name and identification.**

5. **Program information:** Apart from the name of the program, the transcript may also indicate the student’s status (estado), that is, whether or not they graduated (graduado) from the program.

6. **Subjects, hours, credits and grades:** All the subjects (asignaturas) taken are listed along with the number of credits (créditos) obtained for each course or with the hours of instruction per week (intensidad horaria, IH; horas semanales, HS; or intensidad horaria semanal, IHS). The final grades (notas, evaluación, valoración, calificaciones or resultados) for each subject are typically indicated as numbers. Most post-secondary transcripts are organized by semesters (semestres) or academic periods (periodos académicos) of study. The grade averages for each particular semester or academic period (promedio semestral or promedio periodo) are also usually shown.

7. **Summary of credits and results:** A summary of the credits (créditos) required by the program and credits accumulated by the student typically appears either on top or at the bottom of the document along with other general information such as the student’s final grade point average (promedio acumulado).

8. **Signatures:** All post-secondary transcripts should be signed by at least one person, usually the registry director (director de registro), and are often stamped by the institution or the individual who signed them.

9. **Place and date of issue:** The office issuing the transcript and date of issue must be indicated on the document.

10. **Explanatory legend and grading scale:** At the end of the transcript, a legend of the abbreviations and/or the grading scale is sometimes included.
**EXHIBIT 30. ACADEMIC TRANSCRIPT FOR AN UNDERGRADUATE PROGRAM IN INDUSTRIAL ENGINEERING (ISSUED IN 2004 FOR STUDIES COMPLETED IN 1991)**

**PAGE 1 OF 2**

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**INTERNATIONAL EDUCATION GUIDE FOR THE ASSESSMENT OF EDUCATION FROM THE REPUBLIC OF COLOMBIA**

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**INTERNATIONAL EDUCATION GUIDE FOR THE ASSESSMENT OF EDUCATION FROM THE REPUBLIC OF COLOMBIA**
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<td><strong>Período: Intersesional 1991</strong></td>
<td><strong>Prom Periodo: 4.2</strong></td>
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<td>Cred Nota</td>
<td>Asignatura</td>
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<td>PRIC 2691</td>
<td>PROYECTO DE GRADO II</td>
<td>6  4.2</td>
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</tbody>
</table>

**Observación General:**
II: No tentado
I: Nota Incompleto
Y: Nota Pendiente
III: Non Habilizado (3.0)
AP: Asignatura Aprobada
E: No Forma Parte del Programa Actual

**Director de Registro**

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Fecha: 2004-03-29

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**Certificado de Notas**

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**Universidad del Norte**

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**Departamento de Registro**
Bulevard D, primer piso. Teléfono: 5099 231-462
EXHIBIT 31. SAMPLE INK STAMPS OF THE MINISTRY OF NATIONAL EDUCATION (LEFT) AND ICFES (RIGHT) CONFIRMING THE INSTITUTION OF HIGHER EDUCATION ISSUING THE DIPLOMA
Professional Registration and Licensing

EXHIBIT 32. SAMPLE CERTIFICATE OF PROFESSIONAL REGISTRATION FOR AN ELECTRICAL ENGINEER (2002)

CERTIFICADO DE MATRÍCULA PROFESIONAL

EL PRESIDENTE
CONSEJO SECCIONAL DE CALDAS

CERTIFICA:

1. Que en cumplimiento de la Ley 51 de 1985 y del Decreto 1873 de 1996, Cédula de Ciudadanía de Manizales (Caldas), presentó solicitud de matrícula profesional de Ingeniero Electricista ante el Consejo Profesional de Ingenierías Eléctrica, Mecánica y Profesiones Afines, Seccional de Caldas, acreditando para el efecto su grado profesional, otorgado por la Universidad Nacional de Colombia - Manizales el día 22 de marzo de 2002.

2. Que, estudiada la solicitud, el Consejo Profesional de Ingenierías Eléctrica, Mecánica y Profesiones Afines, Seccional de Caldas, mediante la Resolución 7 del 8 de agosto de 2002 expidió la matrícula profesional a para ejercer la profesión de INGENIERO ELECTRICISTA de acuerdo con lo señalado en la ley y el decreto antes citados.

3. Que, mediante la resolución 35 del 20 de agosto de 2002, el Consejo Profesional Nacional de Ingenierías Eléctrica Mecánica y Profesiones Afines confirmó la matrícula anterior y le asignó el número de registro:

Este certificado se expide en Manizales el día 20 de agosto de 2002.

HUGO VALENZUELA PÉREZ
Presidente
Technical and Vocational Education

Certificate (Exhibit 33)

1. **National and institutional names and symbols:** Note that in the late 1990s, SENA’s logo changed, as shown in Figure 9.

2. **Authorization:** Under the institution’s name, there may be reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the institution to operate and offer this type of education. Such authorization is not required for lower technical and vocational programs administered by SENA.

3. **Student’s name and identification.** (The actual names and identification numbers have been removed from the sample credentials to protect the privacy of the individuals.)

4. **Qualification awarded:** The certificate clearly states the qualification being awarded. Often, the CAO simply states the occupation in which the skills were acquired. For example, many SENA certificates contain the phrase “El Servicio Nacional de Aprendizaje SENA certifica la aptitud ocupacional/profesional de (name of student) en el oficio de (name of trade or occupation),” translating to “The National Apprenticeship Service SENA certifies the occupational/professional aptitude of (name of student) in the trade/occupation of (name of trade or occupation).”

5. **Areas studied and mode of training:** SENA certificates in particular list the subjects completed by the student (áreas aprobadas) on the CAO and state the mode of training (modo de formación), for example, apprenticeship (aprendizaje). SENA certificates issued prior to the 1980s indicated the total duration (duración total) of the program.

6. **Certificate type and number:** SENA issues several types of certificates, which are listed on the reverse side of the CAO. The type of certificate is also specified in the lower right-hand corner on the front of the document. Often the CAOs also have their own unique number. In the case of SENA certificates, the number appears on the reverse side of the document.

7. **Inscription reference:** The CAOs are generally inscribed in institutional records. The register number (registro no.) confirms their registration.

8. **Signatures:** All CAOs must be signed by the institution’s head authorities, such as the director (director) or general secretary (secretario general). SENA certificates are normally signed and stamped by the assistant regional manager (subgerente regional) and secretary (secretario).

9. **Place and date of issue.**
EXHIBIT 33. CERTIFICATE OF PROFESSIONAL APITUDE IN THE OCCUPATION OF COOK, ISSUED BY SENA (1987), LOWER TECHNICAL AND VOCATIONAL EDUCATION

Front side
### EXHIBIT 33.
**Reverse side**

<table>
<thead>
<tr>
<th>TIPO</th>
<th>PARA</th>
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<tbody>
<tr>
<td>A.</td>
<td>ASESORES DE EMPRESA, SUPERVISORES E INSTRUCTORES SENA, INSTRUCTORES DE EMPRESA</td>
</tr>
<tr>
<td>B.</td>
<td>TÉCNICOS</td>
</tr>
<tr>
<td>C.</td>
<td>CERTIFICAR APTITUD PROFESIONAL EN UN OFICIO SEA POR APRENDIZAJE O COMPLEMENTACIÓN</td>
</tr>
<tr>
<td>D.</td>
<td>AREDITAR APROBACIÓN O VALIDACIÓN DE CURSOS DE HABILITACIÓN, COMPLEMENTACIÓN, ESPECIALIZACIÓN O PROMOCIÓN</td>
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<td>E.</td>
<td>CONSTANCIA DE ASISTENCIA A CURSOS</td>
</tr>
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#### ANEXO 1

**EL “SENA” EXPIDE LOS SIGUIENTES CERTIFICADOS**

- **REQUISITO**
  - APROBAR O VALIDAR LOS CURSOS TANTO DEL SENA COMO DE EMPRESAS.
  - APROBAR LOS CURSOS DE PROMOCIÓN EN FORMA CONSECUTIVA Y OBTENER LA TOTALIDAD DE LOS CREDITOS QUE CONFORMEN EL RESPECTIVO CURSO.
  - APROBAR LOS CURSOS CORRESPONDIENTES A UN OFICIO MOTIVO DE APRENDIZAJE O HABER OBTENIDO LA TOTALIDAD DE LOS CREDITOS QUE COMPRENEN EL OFICIO CURSADO POR COMPLEMENTACIÓN.
  - APROBAR O VALIDAR LOS CURSOS CORRESPONDIENTES A LOS MODOS DE FORMACIÓN ENUNCIADOS: LA ACUMULACIÓN DE CREDITOS NECESARIOS EN UN OFICIO U OCUPACIÓN DA DERECHO A LA OBTENCIÓN DEL CERTIFICADO DE APTITUD PROFESIONAL, PREVIA EVALUACIÓN FINAL.
  - ASISTIR A CURSOS INFORMATIVOS, SEMINARIOS, CHARLAS Y CONFERENCIAS DICTADAS POR EL SENA O EN FORMA CONJUNTA CON OTRAS ENTIDADES. LA DURACIÓN DEBE SER MÉNOR A DIEZ (10) HORAS.

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Nota: En la esquina inferior derecha se registra el tipo de certificado.
**Transcript (Exhibit 34)**

1. **Name and symbol of the educational institution.**
2. **Authorization:** A reference to a resolution (resolución), decree (decreto) or law (ley) authorizing the school to operate and grant titles may or may not appear on the transcript. (This information does not appear in the sample document in Exhibit 34.)
3. **Transcript number:** The transcripts may or may not be numbered. (This information does not appear in the sample document in Exhibit 34.)
4. **Student’s name and identification.** (The actual name and identification number have been removed from the sample document to protect the privacy of the individual.)
5. **Type of program completed.**
6. **Subjects, hours and grades:** All the subjects (asignaturas) taken are listed along with the grades (notas, evaluación, valoración, calificaciones or resultados) obtained for each course and with the hours of instruction per week (intensidad horaria, IH; horas semanales, HS; or intensidad horaria semanal, IHS). The final grades for each subject are indicated according to the grading scale used by the institution. Most transcripts are organized by semesters (semesters) and may make reference to the instruction stage (etapa lectiva) and the apprenticeship or practical stage (etapa productiva).
7. **Signatures:** The transcripts generally are signed by a secretary (secretario) or coordinator (coordinador).
8. **Place and date of issue.**
9. **Explanatory legend and grading scale:** At the end of the transcript, a legend of the abbreviations and/or the grading scale is often included.
EXHIBIT 34. TRANSCRIPT FOR THE OCCUPATION OF COOK ISSUED BY SENA (ISSUED IN 2002 FOR STUDIES COMPLETED IN 1987), LOWER TECHNICAL AND VOCATIONAL EDUCATION

Note: The corresponding certificate is shown in Exhibit 33.

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Se expide en Bogotá D. C., a los cinco (5) días del mes de diciembre del año dos mil dos (2002).

Jose Vicente Ducua Moreno
Coordinador