

**549.3 Sulfides and sulfo salts**

**.32 Sulfides**

Sulfides, selenides, tellurides, and antimonides

Including galena, stannite, cinnabar, stibnite, bismuthinite, pyrite, calaverite, smaltite

**.35 Sulfo salts**

Minerals containing metals and semimetals combined with sulfur

Including enargite, polybasite, stephanite, proustite, pyrargyrite, tetrahedrite, jamesonite

**.4 Halides**

Minerals in which metals are combined with halogens, e.g., fluorine, chlorine, bromine, iodine

Including halite, cryolite, fluorite, sylvite, cerargyrite, atacamite, carnallite

**.5 Oxides**

*For silica, see 549.6*

**.52 Anhydrous oxides**

Including cuprite, zincite, corundum, hematite, ilmenite, spinel, chromite, chrysoberyl, cassiterite, rutile, pyrolusite, columbite

**.53 Hydrous oxides**

Including diaspore, goethite, manganite, limonite, bauxite, brucite, psilomelane

**.6 Silica and silicates**

Including quartz, opal, feldspar, leucite, zeolite, talc, serpentine, mica, amphibole, pyroxene, spodumene, zircon, topaz, garnet, sillimanite, beryl, olivine

- 549.7 Minerals containing other oxygen compounds**
- .72 Phosphates, vanadates, arsenates**  
Including monazite, triphylite, apatite, vanadinite, lazulite, scorodite, turquoise, vivianite, erythrite  
Class nitrates [*formerly* †549.72] in 549.73
- .73 Nitrates [*formerly* †549.72] and borates**  
Including soda niter, saltpeter, boracite, borax, kernite, ulexite, colemanite
- .74 Tungstates, molybdates, uranates**  
Including wolframite, scheelite, wulfenite, uraninite (pitchblende)  
Class chromates [*formerly* †549.74] in 549.75
- .75 Chromates [*formerly* †549.74] and sulfates**  
Including anhydrous sulfates and chromates, e.g., glauberite, barite, celestite, anglesite, anhydrite, crocoite; hydrous sulfates [*formerly* †549.76] and chromates, e.g., antlerite, polyhalite, gypsum, epsomite, chalcantite, alunite
- [†.76] **Hydrous sulfates**  
Class in 549.75
- .78 Carbonates**  
Including calcite, dolomite, magnesite, siderite, rhodochrosite, smithsonite, aragonite, witherite, strontianite, cerussite, malachite, azurite
- .8 Organic minerals**  
Including amber, asphaltum, lignite, coal  
*For diamonds and graphite, see 549.2*
- .9 Geographic distribution of minerals**  
Divide like 940–999, e.g., mineral deposits of Canada 549.971  
*For regional geology, see 554–559; geographic distribution of geologic materials of economic importance, 553.09*



550 Earth sciences

Study of all earth materials, forces, processes

Including geology

*For astronomical geography, see 525; geography, 910; mineralogy, 549; paleontology, 560*

.1 Philosophy and theories of geology

Including geologic time

551 Geophysics

SUMMARY

- 551.1 Gross structure of earth
- .2 Plutonic phenomena
- .3 Geologic agents and work
- .4 Geomorphology and physical geography
- .5 Meteorology and climatology
- .7 Historical geology (Stratigraphy)
- .8 Structural geology (Tectonophysics)
- .9 Geochemistry

.1 Gross structure of earth

.11 Structure of interior of the earth

.12 Conditions within the earth [*formerly \*551.15*]

Including internal heat, isostasy

.13 Structure of the earth's crust

.14 Physical properties of the earth's crust

Including thermal conductivity of surface components

*For earth currents, see 538.748*

[\*.15] Conditions within the earth

Class in 551.12

[\*.16] Geomagnetism

Class in 538.7

.2 Plutonic phenomena

.21 Volcanology

Study of volcanic phenomena, vulcanism

Including craters, cones, eruptions

*For volcanic earthquakes, see 551.22*

## Earth sciences

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- 551.22      **Seismology**  
            Study of earthquake phenomena  
            Including plutonic and volcanic earthquakes
- .23          **Hot springs and geysers**
- .3          **Geologic agents [*formerly* †551.9] and work**  
            Including degradation (erosion), aggradation (deposition,  
            sedimentation), weathering (rock decay [*formerly* †552.7])
- .31          **Glaciology**  
            Ice accumulation and ice action in the earth's surface  
            *For frost action, see 551.38*
- .312        **Glaciers**  
            Including nourishment, advance, recession, oscillation of  
            glaciers  
            *For icebergs, see 551.342*
- .313        **Glaciation and glacial action**  
            Erosion and scouring of the surface of the earth, and dep-  
            osition of debris by the movement of glaciers and ice  
            masses  
            Including ice fields, ice streams, cirques, drumlins, kettles,  
            kames, roches moutonnées  
            *For Glacial epoch, see 551.792*
- .32          **Moraines**
- .33          **Other glacier-transported materials**  
            Including till, glacial drift, outwashes
- .34          **Ice in the sea**
- .342        **Icebergs**  
            Including shelf ice, growlers
- .343        **Sea ice (Frozen sea water)**



## Decimal Classification

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- 551.35 Geologic work of water [*formerly also* †551.92]  
Gradation by running, subterranean, and rain waters  
Including segregation and concretion [*both formerly also* †551.98], landslides, mudflows  
*For hot springs and geysers, see 551.23; caves, 551.44*
- .36 Geologic work of waves  
Including coastal changes
- .37 Geologic work of wind [*formerly also* †551.93]  
Including wind erosion and transport, dune formation and migration
- .38 Frost action [*formerly* †551.91]  
Rock fragmentation thru freezing of water in crevices  
Including nivation, frost action in soils
- .384 Permafrost phenomena  
Including stone polygons, patterned soil, hummocks
- .4 Geomorphology and physical geography  
Description, origin, development of topographic features
- .41 Continents  
Including continental shelves
- .42 Islands  
Including atolls, coral reefs [*both formerly* †551.96]
- .43 Orology  
Study of mountains  
Including mountain ranges, plateaus, valleys
- .44 Speleology  
Study of caves, caverns, grottoes, karst holes
- .45 Plains  
Including deserts and prairies [*both formerly* †551.58], steppes, tundra, pampas  
*For desert mountain ranges, plateaus, valleys, see 551.43*

*Earth sciences*

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551.46–551.49 Hydrography

551.46

Oceanography

Including comprehensive works on tides

*For marine biology, see 574:92; ocean currents, 551.47; astronomical aspects of tides, 525.6; ice in the sea, 551.34*

.460 1

Composition and properties of sea water

Including salinity, density, temperature distribution, color, transparency

.460 8

Submarine topography

Geology of the ocean floor

.461

Atlantic Ocean

Including North Sea, Baltic Sea, English Channel, Bay of Biscay

.462

Mediterranean Sea

Including Black Sea

.463

Gulf of Mexico and Caribbean Sea

.464

Southern Atlantic Ocean

Including Gulf of Guinea

.465

Pacific Ocean

Including South China Sea, East China Sea, Yellow Sea, Sea of Japan, Bering Sea

.466

Eastern Pacific Ocean

Including American western coastal waters

.467

Indian Ocean

Including Arabian Sea, Bay of Bengal, Persian Gulf, Red Sea

.468

Arctic Ocean

Including Baffin Bay, Davis Strait, Hudson Bay, Hudson Strait

.469

Antarctic Ocean

Southern waters of Atlantic, Pacific, Indian Oceans

.47

Ocean currents

Divide like 551.46, e.g., Gulf Stream 551.471



## Decimal Classification

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- 551.48 Inland waters (Limnology)  
*For marine biology, see 574.92*
- .482 Lakes  
Including ponds, lagoons
- .483 Rivers and streams
- .484 Waterfalls
- .49 Hydrology  
Ground and superficial surface waters  
Including springs, wells, flood waters, runoff  
*For hot springs and geysers, see 551.23; water-supply engineering, 628.1; precipitation, 551.573*
- .5 Meteorology and climatology  
*For meteorology in aeronautics, see 629.132 4; medical climatology and meteorology, 616.988*
- .51 Structure and mechanics of atmosphere [*formerly* †533.3]
- .513 Troposphere  
Layer of air next to the earth
- .514 Upper atmosphere  
Comprehensive works  
*For ionosphere, see 538.767*
- .518 Atmospheric circulation  
Including planetary and terrestrial winds, e.g., doldrums, horse latitudes, trade winds, prevailing westerlies, polar easterlies; continental winds, e.g., monsoons; land, sea, mountain, valley breezes, e.g., foehns, chinooks; local winds, e.g., sirocco, bora  
*For storms, see 551.55*
- .52 Atmospheric thermal conditions
- .522 Atmospheric thermodynamics
- .525 Atmospheric temperature  
Including isotherms, temperature measurement, seasonal temperature changes, frost lines

*Earth sciences*

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- 551.527      Insolation and radiation  
                 Atmospheric absorption of heat, atmospheric cooling,  
                 radiation, heat transmission of atmosphere
- [†.53]      Hypsometry  
                 Class in 526.98
- .54          Atmospheric pressure  
                 Including barometry [*formerly* †533.4], isobars, pressure  
                 gradients
- .55          Storms  
                 *For winds, see 551.518; magnetic storms, 538.74*
- .552        Hurricanes and typhoons
- .553        Tornadoes (Twisters)
- .554        Thunderstorms  
                 *For lightning, see 551.56*
- .559        Other storms  
                 Including dust storms, waterspouts
- .56        Atmospheric electricity [*formerly* †537.4]  
                 Including lightning, St. Elmo's fire, electrical conductivity of  
                 atmosphere  
                 *For geomagnetism, see 538.7*
- .565        Atmospheric optics  
                 Including halos, mirages, rainbows, twilights, night skies  
                 *For astronomical twilight, see 525.7*
- .57        Atmospheric moisture  
                 Including hygrometry, psychrometry
- .572        Condensation and evaporation  
                 Including hoarfrost, dew [*both formerly* \*551.573],  
                 atmospheric nucleation
- .572 4      Clouds  
                 Including fogs, mists  
                 *For artificial precipitation, see 551.573 8*
- .572 8      Droughts



## Decimal Classification

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- 551.573      Precipitation  
                Class hoarfrost, dew [*both formerly \*551.573*] in 551.572  
                    *For condensation and evaporation, see 551.572*
- .573 3      Rain and rainfall  
                Including cloudbursts  
                    *For flood waters and runoff, see 551.49*
- .573 5      Snow and snowfall  
                Including hail, graupel, sleet, snow cover, snow surveys
- .573 8      Artificial precipitation  
                Including cloud seeding  
                    *For weather control, see 551.593*
- [†.58]      Prairies, forests, deserts  
                Class prairies and deserts in 551.45; forests in 634.94
- .59      Climatology and weather  
                *For seasons, see 525.5; paleoclimatology, 551.509 01*
- .591      Weather forecasting
- .592      Microclimatology  
                Climatology of small areas
- .593      Weather control  
                Artificial methods of modifying weather  
                    *For artificial precipitation, see 551.573 8*
- .594      Weather belts
- .594 2      Tropical belts  
                No cool season; mean temperature of coldest month  
                    above 64.4°F
- .594 3      Subtropical belts  
                Arid or semiarid climate; mean temperature above 68°F  
                    for 4–11 months, 50°–68°F for 1–8 months
- .594 4      Temperate belts  
                Rainy climates with mild, short winters; mean  
                    temperature of coldest month 26.6°–64.4°F
- .594 5      Cold belts  
                Rainy climates with long, severe winters, much snow  
                    precipitation, frozen ground for several months; mean  
                    temperature of coldest month below 26.6°F

*Earthsciences*

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- 551.594 6            Polar belts  
                          No warm season; mean temperature of warmest month  
                          below 50°F
- [†.6]            **Metamorphism**  
                          Class in 552.4
- .7    Historical geology (Stratigraphy)**  
                          Study of chronological arrangement and succession of rock strata  
                          *For stratigraphic paleontology, see 560.17*
- .71    Archeozoic (Lower Precambrian) era**  
                          Keewatin and Timiskaming periods
- .715    Proterozoic (Upper Precambrian) era**  
                          Huronian and Keeweenawan periods
- .72    Paleozoic era**
- .724    Cambrian period**  
                          Beginning of the age of invertebrates
- .726    Ordovician period**
- .73    Silurian period**  
                          Including Lower, Middle, and Upper Silurian epochs
- .74    Devonian period**  
                          Age of fishes
- .75    Carboniferous period**  
                          Age of amphibians
- .751    Mississippian (Lower Carboniferous) period**
- .752    Pennsylvanian (Upper Carboniferous) period**
- .756    Permian period**
- .76    Mesozoic era**  
                          Age of reptiles
- .763    Triassic period**
- .766    Jurassic period**
- .77    Cretaceous period**



## Decimal Classification

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- 551.78      **Cenozoic era**  
    Age of mammals  
    Class Quaternary period [*formerly* \*551.78] in 551.79
- .781      **Tertiary period**  
    Including Paleocene, Eocene, Oligocene epochs; Miocene, and  
    Pliocene epochs [*formerly* †551.782–†551.783]
- [†.782–†.783]      **Miocene and Pliocene epochs**  
    Class in 551.781
- .79      **Quaternary period [*formerly* \*551.78]**
- [†.791]      **Recent (Postglacial) epoch**  
    Class in 551.793
- .792      **Pleistocene (Glacial) epoch**  
    Ice age  
    *For glaciology, see 551.31*
- .793      **Recent (Postglacial) epoch [*formerly* †551.791]**
- .8      Structural geology (Tectonophysics)**  
    Form and position of rocks  
    *For petrology, see 552*
- .81      **Stratifications**
- [†.82]      **Curvatures and contortions**  
    Class in 551.87
- .84      **Joints and cleavages**
- .85      **Dips and outcrops**  
    Including strikes
- .86      **Synclines and antisyndines**
- .87      **Faults and folds**  
    Including curvatures, contortions [*both formerly* †551.82]  
    *For synclines and antisyndines, see 551.86*
- .88      **Veins and dikes**  
    Including necks, bosses, laccoliths, sills

**551.9 Geochemistry**

Comprehensive works

Class geologic agents [*formerly* †551.9] in 551.3

*For a specific aspect of geochemistry, see the subject, e.g.,  
vulcanism 551.21*

[†.91] **Frost action**

Class in 551.38

[†.92] **Geologic work of water**

Class in 551.35

[†.93] **Geologic work of wind**

Class in 551.37

[†.96] **Coral reefs**

Class in 551.42

[†.98] **Segregation and concretion**

Class in 551.35

**552 Petrology**

Origin, occurrence, constitution, classification of rocks

*For mineralogy, see 549*

.1 **Igneous rocks**

Rocks formed by cooling and solidification of magma

.2 **Volcanic rocks**

Fine-grained igneous rocks

Including lavas, pumice, felsites, basalt, obsidian, rhyolite,  
andesite, tuff, volcanic ashes and tufa

.3 **Plutonic rocks**

Coarse-grained igneous rocks

Including granites, syenites [*both formerly also* †552.41],  
porphyries, gabbros, dolerites, diorites, norites, peridotites



## Decimal Classification

- 552.4 Metamorphic rocks**  
Igneous and sedimentary rocks changed thru temperature, pressure, and chemical action without disintegration (metamorphism [formerly †551.6])  
Including gneisses, schists, slates, quartzites, serpentines, chrysolitic rocks, crystalline limestones (marble)  
*For weathering (sometimes called metamorphism), see 551.3*
- [†.41] **Granites and syenites**  
Class in 552.3
- .5 Sedimentary rocks**  
Rocks formed thru mechanical accumulation and chemical deposition of rock fragments  
Including sandstones, shales, gypsum, limestones, dolomites, oolites, greensands and their components, e.g., sand, clay, silt, glauconite, diatomaceous earth, salt
- [†.6] **Meteorites**  
Class in 523.51
- [†.7] **Decay of rocks**  
Class in 551.3
- .8 Microscopic petrography**  
Study of rocks in thin sections  
Including examination of fragmental rocks
- 553 Economic geology**  
Occurrence, origin, distribution of geologic materials of economic importance  
Including mining prospectuses  
Class prospecting [formerly \*553] in 622.1  
*For mining engineering, see 622*

### SUMMARY

- |       |                          |
|-------|--------------------------|
| 553.1 | Ore deposits             |
| .2    | Coal deposits            |
| .27   | Mineral pitch deposits   |
| .28   | Oil and gas geology      |
| .29   | Fossil gums and resins   |
| .3-.4 | Metallic ore deposits    |
| .5    | Building stone deposits  |
| .6    | Earthy material deposits |
| .7    | Mineral water deposits   |
| .8    | Gem deposits             |

## *Earth sciences*

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- 553.1     **Ore deposits**
  - Formation, structure, classification of ores
  - Including placer deposits, mineral veins, pegmatite dikes
  
- .2        **Coal deposits**
  
- .21       **Peat deposits**
  - Including peat coal
  
- .22       **Lignite deposits**
  - Including brown coal, jet deposits
  
- .23       **Cannel coal deposits**
  - Including bituminous shale deposits
  
- .24       **Bituminous coal deposits**
  - Including semibituminous coal deposits
  
- .25       **Anthracite coal deposits**
  - Including graphitic anthracite coal deposits
  
- .26       **Graphite deposits**
  - Plumbago and black lead deposits
  
- .27       **Mineral pitch deposits**
  - Including asphalt, bitumen, ozocerite, ceresin, natural paraffin deposits
  
- .28       **Oil and gas geology**
  - Origin, migration, accumulation, and underground distribution
  - For oil and gas prospecting, see 622.182 8; their extraction, 622.338*
  
- .282      **Petroleum geology**
  - For petroleum technology, see 665.5*
  
- .285      **Natural gas geology**
  - Including helium in natural gases
  - For gas technology, see 665.7*
  
- .29       **Fossil gums and resins**



Decimal Classification

- 553.3      **Metallic ore deposits**
- .35      **Ferrous ore deposits**  
            Including hematite, magnetite, goethite, siderite  
            *For soft hematite deposits, see 553.66*
- .4        **Nonferrous ore deposits**
- .41        **Deposits of precious metal ores**
- .413        **Gold ores**
- .42        **Silver ores**
- .422        **Platinum ores [formerly †553.49]**
- .43        **Copper ores**
- .44        **Lead ores**
- .45        **Zinc, tin, mercury ores**
- .452        **Zinc ores**
- .453        **Tin ores**
- .454        **Mercury ores**
- .46        **Ores of ferro-alloy metals**  
            Including molybdenum, tungsten, titanium, vanadium, tantalum, niobium ores [all formerly †553.49]; chromium, manganese ores  
            *For nickel and cobalt ores, see 553.48*
- .47        **Antimony, arsenic, bismuth [formerly †553.49] ores**
- .48        **Nickel and cobalt ores**
- .49        **Other metallic ores**  
            Class platinum ores in 553.422; molybdenum, tungsten, titanium, niobium ores in 553.46; bismuth ores in 553.47 [all formerly †553.49]
- .492        **Aluminum ores**  
            *For emery and corundum deposits, see 553.65*
- .493        **Fissionable ores**  
            Including uranium, radium, thorium ores
- .499        **Minor metallic ores**  
            Including hafnium, germanium, zirconium, gallium, indium, selenium, tellurium, beryllium ores

O

*Earth sciences*

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- 553.5 Building stone deposits**  
Including sculptors' stones, ornamental stones  
*For gem deposits, see 553.8*
- .51 Marble and limestone deposits**  
*For alabaster deposits, see 553.635; mineral lime deposits, 553.68; verd antique marble deposits, 553.55*
- .52 Granite and syenite deposits**  
*For feldspar deposits, see 553.69*
- .53 Sandstone deposits**  
Clastic rocks composed essentially of quartz  
Including bluestones, flagstones  
*For sand and gravel deposits, see 553.62*
- .54 Slate deposits**
- .55 Serpentine and soapstone deposits**  
Including onyx, verd antique marble, travertine  
*For talc and chrysolite serpentine deposits, see 553.67*
- .6 Earthy material deposits**
- .61 Industrial clay deposits**  
Including kaolin, bentonite, fuller's earth, diaspore clay
- .62 Sand and gravel deposits**  
Including sand and gravel for building and paving materials, sands for chemical uses
- .63 Industrial salts deposits**  
*For mineral water deposits, see 553.7*
- .632 Rock salt deposits (Sodium chloride deposits)**



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## Decimal Classification

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- 553.633 Deposits of borax and other borates  
Including boric acid deposits
- .635 Gypsum deposits  
Including alabaster
- .64 Deposits of mineral fertilizers  
Including nitrates, potash, phosphates, apatite  
Class guano [*formerly* †553.64] in 631.86  
*For sulfur deposits, see 553.668; gypsum deposits, 553.635;  
lime deposits, 553.68*
- .65 Deposits of abrasive materials  
Including emery, corundum, pumice, garnet, flint, carbonado,  
industrial diamonds, tripoli  
*For gem deposits, see 553.8; sand deposits, 553.62*
- .66 Deposits of pigment materials  
Including barite (heavy spar), ochers, umber, sienna, soft  
hematite, limonite, rutile  
*For hematite deposits, see 553.35*
- .668 Sulfur deposits
- .67 Deposits of refractory materials  
Including asbestos (chrysolite serpentine, anthophyllite,  
crocidolite), mica, vermiculite, talc  
*For soapstone deposits, see 553.55*
- .68 Deposits of cementing materials  
Including mineral cements and limes, chalks, calcites, marl  
*For gypsum deposits, see 553.635*
- .69 Other earthy economic mineral deposits  
Including feldspar, diatomaceous earth (kieselguhr)

*Earth sciences*

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- 553.7 **Mineral water deposits**  
Including deposits of sodium carbonate (soda ash), sodium bicarbonate, trona, sodium sulfate, other brine-occurring minerals
- .8 **Gem deposits**  
Including precious and semiprecious minerals used for ornaments
- .82 **Diamond deposits**  
*For deposits of industrial diamonds, see 553.65*
- .84 **Ruby and sapphire deposits**
- .86 **Emerald deposits**

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**554–559 Regional geology**

Comprehensive works

Divide like 940–999, e.g., geology of United States 557.3

*For a specific geological aspect of a region, see the subject, e.g., economic geology of Great Britain 553.094 2*

- 554 **Geology of Europe**
- 555 **Geology of Asia**
- 556 **Geology of Africa**
- 557 **Geology of North America**
- 558 **Geology of South America**
- 559 **Geology of Pacific and Atlantic islands, of Polar Regions**



## Decimal Classification

### 560 Paleontology

Including comprehensive works on paleozoology, paleontological anatomy [formerly †611.016]

*For a specific animal fossil or group of animal fossils, see 562-569; paleobotany, 561; paleoclimatology, 551.509 01*

#### .17 Stratigraphic paleontology

Including stratigraphic paleobotany and paleozoology

*For a specific fossil or group of fossils, see 561-569; stratigraphic paleontology in a specific country, 560.94-560.99, e.g., Mesozoic fossils in Great Britain 560.942; historical geology, 551.7*

#### .171 Archeozoic and Proterozoic paleontology

#### .172 Paleozoic paleontology

Including fossils of Cambrian, Ordovician, Silurian, Devonian, Carboniferous, Permian periods

#### .176 Mesozoic paleontology

Including fossils of Triassic, Jurassic, Cretaceous periods

#### .178 Cenozoic paleontology

Including fossils of Tertiary and Quaternary periods

#### .9 Geographic paleontology

Including geographic paleozoology

*For geographic paleobotany, see 561.19*

#### .92 Marine paleontology

*For a specific marine fossil or group of fossils, see the subject, e.g., Algae 561.93; bivalves 564.1*

#### .94-.99 Geographic paleontology by country

Divide like 940-999, e.g., fossils of Great Britain 560.942

### 561 Paleobotany

*For stratigraphic paleobotany, see 560.17*

#### [.09] Geographic paleobotany

Class in 561.19

#### .1 Paleobotanical elements

#### .13 Fossil pollen and spores



## Paleontology

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- 561.14 Fossil fruit and seeds  
.19 Geographic paleobotany  
Divide like 940-999, e.g., fossil plants of Greenland 561.199 82

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### 561.2-561.9 Taxonomic paleobotany

- .2 **Fossil Spermatophyta (Fossil seed plants)**  
Including comprehensive works on Angiospermae [*formerly*  
\*561.3]  
*For Dicotyledones, see 561.3; Monocotyledones, 561.4;*  
*Gymnospermae, 561.5*
- .21 **Trees**  
Including petrified wood  
*For trees of a specific group, see the group, e.g., ginkgo*  
*trees 561.57*
- .3 **Dicotyledones**  
Class Angiospermae [*formerly* \*561.3] in 561.2
- .4 **Monocotyledones**
- .45 **Palmaceae (Palms)**
- .49 **Gramineae (Grasses)**
- .5 **Gymnospermae (Naked-seed plants)**
- .51 **Gnetales**
- .52 **Coniferales (Conifers)**  
Including Taxaceae, Podocarpaceae, Araucariaceae,  
Cephalotaxaceae, Pinaceae, Taxodiaceae, Cupressa-  
ceae
- .55 **Cordaitales**  
Including Pityeae (Callixylon), Cordaiteae, Poroxyleae
- .57 **Ginkgoales (Ginkgo trees)**
- .59 **Cycadophyta**
- .591 **Cycadales (True cycads)**



Decimal Classification

- 561.592      Cycadeoidales  
                Former heading: Bennettitales  
                Including Williamsoniaceae, Cycadeoidaceae
- .595      Pteridospermae (Seed ferns)  
                Including Medullosaceae, Lyginodendraceae [*both formerly*  
                †561.596 6–†561.596 7], Calamopityaceae
- [†.596 6–†.596 7]      Medullosaceae and Lyginodendraceae  
                                Class in 561.595
- .597      Fernlike fossils of uncertain taxonomic position  
                Including Archaeopteris [*formerly* †561.598 1], Megalopteris,  
                Glossopteris, Maropteris, Alliopteris, Taeniopteris, Neuropteris,  
                Odontopteris, Cyclopteris, Linopteris, Callipteris, Alethopteris,  
                Pecopteris, Sphenopteris, Rhacopteris
- [†.598 1]      Archaeopteris  
                                Class in 561.597
- .6      Fossil Cryptogamia (Fossil seedless plants)  
                For Pteridophyta, see 561.7; Bryophyta, 561.8; Thallophyta, 561.9
- .7      Pteridophyta
- .71      Isoetales
- .72      Sphenopsida (Scouring rushes)  
                Including Equisetales, Calamitales, Sphenophyllales,  
                Pseudoborniales, Hyeniales
- .73      Filicineae (Ferns)  
                Including Filicales, Marattiales, Ophioglossales,  
                Coenopteridales
- .74      Psilopsida  
                Including Psilotales, Psilophytales
- .79      Lycopsidea (Lycopods)  
                Comprehensive works  
                Including Pleuromeiales, Lepidodendrales, Selaginellales,  
                Lycopodiales  
                For Isoetales, see 561.71
- .8      Bryophyta (Moss plants)
- [†.84]      Characeae  
                Class in 561.93

## Paleontology

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- 561.9      **Thallophyta**  
    .92      **Mycophyta (Fungi)**  
    .93      **Algae**  
            Including Characeae [*formerly* †561.84], other kinds of  
            Algae [*formerly* †561.94–†561.98]  
[†.94–†.98]      **Other kinds of Algae**  
                    Class in 561.93
- 

## 562–569 Paleozoology

*For taxonomic zoology, see 592–599*

- 562      **Invertebrate paleozoology**
- 563      **Protozoa**  
    .1      **Plasmodroma**  
            Including Foraminifera, Radiolaria
- [†.3]      **Coelenterata**  
            Class in 563.5
- .4      **Porifera (Sponges)**  
            Including Calcispongiae, Hyalospongiae, Desmospongiae
- .47      **Archaeocyatha**  
            Cambrian fossils with characteristics of sponges and corals
- .5      **Metazoa**  
            Including Coelenterata (Cnidaria) [*formerly also* †563.3],  
            Enterozoa, Radiata  
            Class Anthozoa [*formerly* \*563.5] in 563.6; Graptolitoidea  
            [*formerly* \*563.5] in 563.7
- .6      **Anthozoa (Corals)** [*formerly* \*563.5]
- .7      **Hydrozoa**  
            Including Graptolitoidea [*formerly* \*563.5], Hydroida,  
            Trachylina, Milleporina, Stylasterina, Siphonophora
- .73      **Scyphozoa**  
            Including Lucernariidea, Charybdeidea, Corona, Semaestomea,  
            Rhizastomea



Decimal Classification

- 563.78      **Stromatoporoidea**
- .9      **Echinodermata**  
            Including Cystoidea, Blastoidea
- .91      **Crinoidea**  
            Including Camerata, Adunata, Flexibilia, Inadunata,  
            Articulata, Comatulida
- .92      **Asterozoa**  
            Class starfish [*formerly* †563.92] in 563.93
- .93      **Asteroidea (Starfish)** [*formerly* †563.92]  
            Including Phanerozoona, Spinulosa, Forcipulata
- .94      **Ophiuroidea**  
            Including Aegophiurida, Lysophiurida, Ophiocystiida,  
            Aganasterida, Phrynophiurida, Laemophiurida, Gnath-  
            ophiurida, Chilophiurida
- .95      **Echinozoa**  
            Including Bothriocidaroida, Cidaroida, Centrechinoida,  
            Exocycloida, Perischoechinoida, Echinocystoidea, Peri-  
            choechinoida
- 564      **Mollusca and molluscoidea**
- .1      **Pelecypoda (Bivalve mollusks)**  
            Including Prionodesmacea, Anomalodesmacea, Teleodesmacea,  
            Pantodonta
- .19      **Crepipoda (Chitons)**  
            Polyplacopoda (Amphineura) [*formerly* †564.31]  
            Including Eoplacophora, Aplacophora, Mesoplacophora,  
            Isoplacophora, Teleoplacophora
- .2      **Scaphopoda (Toothshells)**
- .3      **Gastropoda**  
            Snails, slugs, whelks  
            Divide like 594.3, e.g., fossil sea slugs (Pteropoda) [*formerly*  
            †564.4] 564.35
- [†.31]      **Amphineura**  
            Class in 564.19
- [†.4]      **Pteropoda**  
            Class in 564.35

- 564.5 Cephalopoda
- .51 Tetrabranchia
  - .52 Nautiloidea (Nautilus)
  - .53 Ammonitoidea
  - .55 Dibranchia
    - Including Vampyromorpha
  - .56 Octopoda
    - Including Belemnnoidea
  - .58 Decapoda
  - .6 Molluscoidea
  - .7 Bryozoa
  - .8 Brachiopoda
    - Including Paleotremata
- [†.9] Tunica
- Class in 566
- 565 Other fossil invertebrates
- .1 Wormlike fossil animals
    - Including Tardigrada [*formerly* †565.412, \*565.4], Platyhelminthes, Nemertea, Nematoida, Nematomorpha, Acanthocephala, Eucoelomata, Annelida, Phoronidea, Myzostoma, Aschelminthes
  - .2 Arthropoda
  - .3 Crustacea
    - Class Pycnogonida [*formerly* †565.315] in 565.394
    - Divide like 595.32–595.35, e.g., fossil barnacles 565.35
  - .36 Malacostraca
    - Including Nebaliacea, Rhinocarina, Ceratiocarina, Hymenocarina, Nahecarida
  - .37 Eumalacostraca
    - Including Amphipoda, Isopoda, Thermosbaenacea, Tanaidacea



*Decimal Classification*

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- 565.38 Other Eumalacostraca  
Including Cumacea, Stomatopoda, Mysidacea,  
Decapoda, Euphausiacea
- .39 Chelicerata
- .391 Merostomata  
Including Eurypterida, Synxiphosura
- .392 Xiphosura
- .393 Trilobita
- .394 Pycnogonida [*formerly* †565.315]
- .4 Arachnida  
Class Tardigrada [*formerly* \*565.4] in 565.1
- [†.412] Tardigrada (Water bears)  
Class in 565.1
- .49 Architarbi
- .6 Progoneata  
Former heading: Myriopoda  
Divide like 595.6, e.g., fossil centipedes 565.62
- .7 Insecta (Insects)
- .71 Synaptera  
Including Collembola, Protura, Entotrophi, Thysanura
- .72 Orthoptera and related orders  
Including Dermaptera, Blattariae, Phasmotodea, Mantodea
- .73 Other related orders  
Including Thysanoptera, Corrodentia, Odonata,  
Ephemeroptera, Plecoptera, Isoptera,  
Embioptera, Zoraptera
- .74 Neuroptera and related orders  
Including Megaloptera, Mecoptera, Trichoptera, Strepsiptera
- .75 Hemiptera and related orders  
Including Anoplura, Mallophaga, Homoptera, Heteroptera
- .76 Coleoptera  
Including Adephaga, Polyphaga, Elateroidea, Mordelloidea,  
Curculionoidea, Colydioidea
- .77 Diptera  
Including Orthorrhapha, Cyclorrhapha, Siphonaptera

*Paleontology*

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- 565.78      **Lepidoptera**  
              Including Jugatae, Frenatae, Rhopalocera
- .79          **Hymenoptera**
- 566      **Vertebrate paleozoology (Fossil Chordata)**  
              Including Tunicata [*formerly* †564.9], Acrania [*formerly* †567.1],  
              Craniata
- 567      **Anamnia (Fossil cyclostomes, fishes, amphibians)**
- [†.1]      **Acrania**  
              Class in 566
- .2          **Agnatha**  
              Including Cyclostomata (lampreys)
- .3          **Chondrichthyes (Sharks, rays, skates)**  
              Including Elasmobranchii, Cladoselachii, Selachii, Hybo-  
              dontoidea, Batoidea, Pleuracanthodii, Holocephali, Brady-  
              odonti
- .4          **Actinopterygii (Ganoids)**  
              Including Palaeoniscoidea, Subholostei, Semionotoidea,  
              Pycnodontoidea, Aspidorhynchoidea, Pholidophoroidea  
              Class Teleostei [*formerly* \*567.4] in 567.5
- .5          **Teleostei [*formerly* \*567.4]**  
              Including Isospondyli, Ostariophysii, Apodes, Heteromi,  
              Mesichthyes, Acanthopterygii
- .6          **Amphibia**  
              Including Labyrinthodontia, Lepospondyli
- .7          **Apoda**
- .8          **Salientia**  
              Including Eoanura, Proanura, Anura
- .9          **Urodela**  
              Including Cryptobranchoidea, Amblystomoidea,  
              Salamandriodea, Proteidea



Decimal Classification

- 568      Sauropsida (Reptiles and birds)
- .1      Reptilia
- .11     Lepidosauria  
          Including Eosuchia, Rhynchocephalia, Squamata, Lacertilia  
          (lizards)
- .12     Serpentes (Snakes)
- .13     Anapsida  
          Including Cotylosauria, Chelonia
- .14     Crocodilia  
          Including Protosuchia, Sebecosuchia, Mesosuchia, Eusuchia
- .15     Ichthyopterygia
- .16     Synaptosauria  
          Including Protorosauria, Sauropterygia
- .17     Synapsida  
          Former heading: Anomodontia  
          Including Pelycosauria, Therapsida, Ictidosauria
- .18     Pterosauri  
          Including Rhamphorhynchoidea, Pterodactyloidea
- .19     Archosauria  
          Former heading: Dinosauria  
          Including Thecodontia, Saurischia, Ornithischia  
          For *Crocodylia*, see 568.14; *Pterosauri*, 568.18
- .2      Aves (Birds)
- .22     Archaeornithes
- .23     Neornithes  
          Including Hesperornithiformes, Ichthyornithiformes  
          Class other orders of Neornithes [*formerly* \*568.2] in  
          568.3-568.9
- 
- 568.3-568.9 Other orders of Neornithes [*formerly*  
\*568.2]
- .3      Gruiformes and related orders  
          Including Charadriiformes [*formerly* †568.4], Phororhaci,  
          Diatrymiformes, Ciconiiformes

*Paleontology*

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- 568.4      Anseriformes and related orders  
            Including Procellariiformes, Pelecaniformes, Sphenisciformes,  
            Gaviiformes, Colymbiformes  
            Class Charadriiformes [*formerly* †568.4] in 568.3
- .5          Palaeognathae  
            Including Caenagnathiformes, Struthioniformes, Rheiformes,  
            Casuariiformes, Dinornithiformes, Aepyornithiformes,  
            Apterygiformes, Tinamiformes
- .6          Galliformes and Columbiformes
- .7          Psittaciformes and related orders  
            Including Piciformes, Trogoniformes, Cuculiformes
- .8          Passeriformes and related orders  
            Including Coraciiformes, Apodiformes
- .9          Falconiformes and related orders  
            Including Strigiformes, Caprimulgiformes
- 569        Mammalia (Mammals)
- .1         Prototheria  
            Including Monotremata
- .17        Allotheria  
            Including Multituberculata, Triconodonta
- .18        Theria  
            Including Pantotheria, Symmetrodonta
- .2         Metatheria  
            Including Marsupialia
- .3         Eutheria  
            Including Unguiculata
- .31        Edentata  
            Including Palaeonodonta, Xenarthra, Pholidota
- .32        Glires  
            Including Lagomorpha, Rodentia
- .33        Insectivora
- .34        Dermoptera
- .35        Tillodontia



*Decimal Classification*

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- 569.36 Taeniodontia  
.4 Chiroptera  
    Including Megachiroptera, Microchiroptera  
.5 Cetacea  
    Including Archaeoceti, Odontoceti, Mysticeti  
.55 Sirenia  
    Including Trichechiformes, Desmostyliformes  
.6 Paenungulata  
    Including Pantodonta, Dinocerata, Pyrotheria, Proboscidea,  
    Embrithopoda, Hyracoidea  
    *For Sirenia, see 569.55*  
.7 Mesaxonia and Paraxonia  
.72 Perissodactyla  
    Including Hippomorpha, Ceratomorpha  
.73 Artiodactyla  
    Including Suiformes, Tylopoda, Ruminantia  
.74 Carnivora  
    Including Creodonta, Fissipeda, Pinnipedia  
.75 Protungulata  
    Including Condylarthra, Litopterna, Notoungulata,  
    Astrapotheria, Tubulidentata  
.8 Primates  
    Including Prosimii, Anthropeidea  
    Class man [*formerly* \*569.8] in 569.9  
.9 Hominidae (Man) [*formerly* \*569.8]

**570 Anthropological and biological sciences**

*For anthropology, see 572; biology, 574*

**571 Prehistoric archeology**

Comprehensive works

Including relics of material, cultural, social life

*For ancient history, see 930; antiquities, prehistoric and historic archeology of a specific country, 913; American Indian archeological remains, 970.1-970.6, 980.1-980.6; comprehensive works on prehistoric and historic archeology, 913*

**.1 Paleolithic or old stone age**

Including chipt stone artifacts

*For cave dwellings, see 571.8*

**.2 Neolithic or new stone age**

Including polisht stone artifacts

**.3 Copper and bronze age**

**.4 Iron age**

**.5 Other remains**

Including basketry, textiles, pottery, glass, implements of wood and bone

**.6 Prehistoric industries**

**.7 Prehistoric art**

Including prehistoric art objects, ornaments, drawings

**.72 Painting**

Including rock paintings

**.73 Sculpture**

Including rock carvings, petroglyphs

**.8 Prehistoric shelter**

Including cave dwellings, pit dwellings, lake dwellings, tree dwellings

*For pueblos, cliff dwellings of American Indians, see 970.657 18, 980.657 18*

**.9 Other prehistoric structures**

Including mounds, kitchen middens, megaliths, monoliths, dolmens, cromlechs

*For American Indian mounds in a specific place, see the place, e.g., mounds in Wisconsin 913.775*



- 572 Anthropology**  
 Including cultural anthropology; comprehensive works on cultural and physical anthropology  
*For culture and society, see 301.2; ethnopsychology and national psychology, 136.4; physical anthropology, 573; history of civilization, 901.9; customs and folklore, 390; criminal anthropology, 364.33*
- .4 **Original home of man**  
 Including Eden, Atlantis
- .8 **Linguistic anthropology**  
 Division of peoples by language  
 Including Aryan, Slavic, other similar groups  
 Prefer 572.9 when geographic division is possible  
 Divide like 420-499, e.g., Semitic races 572.892  
*For philology, see 400; anthropogeography, 572.9*
- .9 **Anthropogeography**  
 Geographic distribution of races  
 Divide like 930-999, e.g., distribution of races in Asia 572.95  
*For physical anthropology, see 573; linguistic anthropology, 572.8; sociological aspects of ethnic and minority groups, 301.45; migration, 325; human ecology, 301.3*
- 573 Physical anthropology**  
 Including natural history of man, his origin, physical measurements, personal characteristics, anthropological anatomy [formerly †611.014]
- .2 **Origin of man [formerly \*573.3]**  
*For original home of man, see 572.4*
- ✓.3 **Antiquity of man**  
 Including evolution of man  
 Class origin of man [formerly \*573.3] in 573.2
- .4 **Influence of climate and surroundings**
- .6 **Anthropometry**  
 Including comprehensive works on fingerprints  
 Class craniology [formerly \*573.6] in 573.7  
*For use of anthropometry in crime investigation, see 364.125; fingerprinting of prisoners, 365.642*
- .7 **Craniology [formerly \*573.6]**  
*For phrenology, see 139*



*Anthropological and biological sciences*

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573.8

Abnormal dimensions

Including dwarfs, giants

*For teratology, see 611.012*

[†.9]

Monstrosities

Class in 611.012

574

**Biology**

Science of life and living organisms

*For anthropology, see 572; botanical sciences, 580; zoological sciences, 590; conservation of wildlife, 799; wildlife refuges, 338.78*

**SUMMARY**

- 574.1 Biophysiology
- .2 Pathology
- .3 Embryology
- .4 Biomorphology
- .5 Bioecology
- .6 Economic biology
- .8 Microscopic biology
- .9 Natural history and biogeography

.01

Biological theories

Class philosophy of biology [*formerly \*574.01*] in 577

(.028)

Biological techniques [*formerly \*578*]

Comprehensive works

*For biomicroscopy, see 578.4; slide preparation, 578.6-578.9*

.074

Natural history museums

Comprehensive works

*For botanical exhibits, see 580.74; zoological exhibits, 590.74; aquariums, 574.920 74; arrangement and preservation of specimens in museums, 579.7-579.8*

✓.1

Biophysiology [*formerly also †612.014*]

Vital processes and functions of all living organisms

*For plant physiology, see 581.1; animal physiology, 591.1; human physiology, 612*

✓.11

Circulation

✓.12

Respiration

.13

Nutrition and metabolism

Including postembryonic growth and development

*For products of metabolism, see 574.192*



## Decimal Classification

- ✓ 574.14 Secretion and excretion
- ✓ .16 Reproduction  
*For histogenesis, see 574.17; genetics, 575.1*
- 
- 574.162–574.165 Asexual reproduction
- .162 Parthenogenesis
- .163 Alternation of generations (Metagenesis)
- .165 Vegetative generation
- ✓ .166 Sexual reproduction  
*For alternation of generations, see 574.163*
- .166 2 Conjugation
- .167 Hermaphroditism
- ✓ .17 Histogenesis  
 Microscopic study of germ cells  
*For microscopic biology, see 574.8; reproduction, 574.16*
- .18 Response to stimuli  
 Including irritability [*formerly also* †576.4], tropisms, motion, locomotion
- ✓ .19 Physics and chemistry of vital processes [*formerly also* †577.1]
- ✓ .191 Biophysics  
*in the sense of 15th ed. 19, it is actions of physical agents on organisms*  
 Comprehensive works on physics of vital processes  
*For physics of a specific function, see the function, e.g., circulation 574.11; plant biophysics, 581.191; animal biophysics, 591.191; human biophysics, 612.017*
- .192 Biochemistry, *Physical*  
 Including chemical constitution of living matter, products of metabolism  
*For metabolism, see 574.13; plant biochemistry, 581.192; animal biochemistry, 591.192; human biochemistry, 612.015*
- .193 Enzymes and antienzymes in vivo
- .194 Hormones and vitamins in vivo
- ✓ .196 Biosynthesis

*Anthropological and biological sciences*

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574.2

**Pathology**

Including anomalies, malformations (teratology), deformations, diseased conditions of organisms

*For plant pathology, see 581.2; animal pathology, 591.2; human pathology, 616.07*

.3

**Embryology**

Formation and development of organisms

Including gametogenesis

*For postembryonic development, see 574.13; plant embryology, 581.33; animal embryology, 591.33; human embryology, 612.64*

.4

**Biomorphology**

Morphological comparison of plants with animals

Including descriptive anatomy [formerly †574.7] of organisms

*For plant morphology, see 581.4; animal morphology, 591.4; human anatomy, 611*

.5

**Bioecology [formerly †575.3]**

Interrelation of organisms to environment and to each other

*For plant ecology, see 581.5; animal ecology, 591.5; human ecology, 301.3*

.52

**Adaptation to environment [formerly †575.4]**

Including biological autecology, synecology, biogeochemistry

*For biogeography, see 574.9*

.53

**Nutritive adaptations**

Including food chains and cycles

.54

**Biometeorology and bioclimatology**

.55

**Biological communities**

Including consocieties, associations, clans, colonies, mutualistic and antagonistic symbioses

.56

**Reproductive adaptations**

Adaptive breeding habits

.57

**Protective adaptations**

⊙ Including means of protection, attraction, self-preservation

.6

**Economic biology**

*For economic botany, see 581.6; economic zoology, 591.6*

[†.7]

**Descriptive anatomy**

Class in 574.4



Decimal Classification

- ✓ 574.8      **Microscopic biology**  
Study of structural parts of organisms with a microscope  
*For microbiology, see 576; biomicroscopy, 578.4; microscopic botany, 581.8; microscopic zoology, 591.8; slide preparation, 578.6*
- ✓ .82      **Histology**  
Study of minute structure of tissues  
*For human histology, see 611.018*
- ✓ .87      **Cytology** [*formerly also †576.3 and its subdivisions; †612.014 1–†612.014 3*]  
Study of cells  
*For germ cells, see 574.17; human cytology, 611.018 1*
- ✓ .872      **Cell morphology**
- ✓ .873      **Protoplasm** [*formerly also †\*576.2*]
- ✓ .873 2      **Nucleus**  
Including chromosomes, nucleolus, chromatin, linin network, nuclear membrane
- .873 3      **Plastids**  
Including chromoplasts, leucoplasts
- .873 4      **Cytoplasm**  
Including centrosomes, blepharoplasts, metaplasmic bodies
- .874      **Non-protoplasmic structure of cells**  
Including pigmentation, vacuoles, aleurone grains
- .875      **Cell membrane**
- ✓ .876      **Cell physiology**
- ✓ .876 1      **Cell nutrition and metabolism**
- ✓ .876 2      **Cell division**
- .876 22      **Direct cell division (Amitosis)**
- ✓ .876 23      **Indirect cell division (Mitosis)** ●  
Including prophase, metaphase, anaphase, telophase stages of cell division
- .876 4      **Other cell functions**  
Including cell respiration, excretion



## *Anthropological and biological sciences*

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- 574.876 5 Cell degeneration  
.876 6 Cell colonies [*formerly* †576.5]  
.878 Comparative cytology  
Comparison of plant cells with animal cells  
.9 **Natural history and biogeography**  
*For phytogeography, see 581.9; zoogeography, 591.9; anthropogeography, 572.9*  
.909 Zonal and physiographic biology  
*For flora and fauna of Polar Regions, see 574.998*  
.909 2 Temperate-Zone biology  
.909 3 Tropical biology  
.909 4 Mountain-area biology  
.909 5 Desert biology  
.91 Insular biology  
Divide like 940-999, e.g., flora and fauna of Madagascar  
574.916 91  
.92 Marine biology  
Divide like 551.46, e.g., Caribbean Sea life 574.923  
.920 74 Aquariums [*formerly* †\*590.74]  
.928 Polar marine biology  
*For flora and fauna of Polar Regions, see 574.998*  
.929 Fresh-water biology (Limnetic biology)  
Divide like 940-999, e.g., flora and fauna of the Great Lakes  
574.929 77  
.93-.99 Natural history and biogeography by country  
Divide like 930-999, e.g., plants and animals in Arizona  
574.979 1
- 575 Organic evolution (Phylogeny)**  
Origin of species thru historic descent with modification  
*For evolution of man, see 573 3, of plants, 581.38; of animals, 591.38; of a specific plant or animal, the taxonomic group, e.g., evolution of bony fish 597.5; paleontology, 560*  
.016 Modern theories of evolution  
✓.016 2 Darwinian and neo-Darwinian theories  
Including natural selection, survival of the fittest [*both formerly also* †575.423]



Decimal Classification

575.7 Evolutionary cycles  
Including degeneration, extinction, regeneration of species

.9 Origin and evolution of sexes

576 Microbiology

Study of microscopic organisms

Class origin and beginnings of life [formerly †\*576] in 577

*For bacteriology, see 589.9; mycology, 589.2; protozoology, 593.1; a specific application, the subject, e.g., medical microbiology 616.01; microscopic biology, 574.8; biomicroscopy, 578.4*

[†.1] Abiogenesis

Class in 577.01

[†\*.2] Protoplasm

Class in 574.873

[†.3] Cytology

Class in 574.87

[†.4] Irritability

Class in 574.18

[†.5] Cell colonies

Class in 574.876 6

✓.6 Rickettsiae [formerly \*589.9] and viruses

*For pathogenic viruses and rickettsiae, see 616.019; viral and rickettsial diseases, the subject, e.g., in man 616.92*

✓ 577 Philosophy of biology [formerly \*574.01]

Including origin and beginnings of life [formerly †\*576], nature of living substances, vitalism

*For organic evolution, see 575*

.01 Abiogenesis (Spontaneous generation) [formerly \*576, †576.1, †581.161, †591.161]

[†.1] Physics and chemistry of vital processes

Class in 574.19

.2 Comparison of living and nonliving substances

*Anthropological and biological sciences*

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- 579.6 **Methods of collecting biological specimens**  
Including collecting equipment; transportation techniques
- .7 **Arrangement of specimens in museums**  
Including arrangement of habitat groups  
*For botanical exhibits, see 580.74; zoological exhibits, 590.74*
- .8 **Preservation of specimens in museums**  
Including air conditioning; control of moths, other destructive animals

580 **Botanical sciences**

*For paleobotany, see 561; production of crops, 633-635; organic evolution, 575*

- .74 **Botanical exhibits**  
*For arrangement of specimens in museums, see 579.7*
- .742 **Herbariums**
- .744 **Botanical gardens**

581 **Botany**

*For a specific aspect of an individual plant or group of plants, see the plant or group, e.g., formation of sunflower seeds 583.55; taxonomic botany, 582-589*

**SUMMARY**

- 581.1 **Plant physiology (Phytophysiology)**
- .2 **Plant pathology (Phytopathology)**
- .3 **Plant maturation**
- .4 **Plant morphology**
- .5 **Plant ecology**
- .6 **Economic botany**
- .8 **Microscopic botany**
- .9 **Phytogeography**



Decimal Classification

- ✓ 578.63      **Microtomes and microtomy**  
                    Including frozen section technique, section cutting
- ✓ .64          **Stain techniques**
- .65          **Mounting techniques**
- .8            **Slide preparation of plant tissues**  
                    Divide like 578.6, e.g., staining root hairs 578.84
- .9            **Slide preparation of animal tissues**  
                    Divide like 578.6, e.g., fixation of heart tissues 578.92
- 579          **Collection and preservation of biological specimens**
- .1            **Preparation and preservation of skeletons**
- .2            **Preservation of biological specimens**  
                    Preservation in alcohol, formaldehyde and other preservatives  
                    Including injections of preservatives [*formerly* †579.3]; embalming,  
                    mummification  
                    *For taxidermy, see 579.4; preservation in museums, 579.8;  
                    preservation of skeletons, 579.1*
- [†.3]        **Injections**  
                    Class in 579.2
- .4            **Taxidermy**  
                    Art of preparing, stuffing, mounting [*formerly* †579.5] skins of  
                    animals
- [†.5]        **Mounting**  
                    Class in 579.4



581.1 Plant physiology (Phytophysiology)

SUMMARY

- 581.11 Circulation in plants
- .12 Respiration in plants
- .129 Transpiration in plants
- .13 Nutrition and metabolism in plants
- .14 Secretion and excretion in plants
- .15 Plant genetics
- .16 Plant propagation
- .17 Plant histogenesis
- .179 Regenerative functions in plants
- .18 Response of plants to stimuli
- .19 Physics and chemistry of vital processes in plants

.11 Circulation in plants

Absorption and translocation of water in the xylem and solutes in the phloem

Including cytoplasmic and protoplasmic movements [*formerly* †581.186], capillarity, osmosis

.12 Respiration in plants

Exchange and translocation of gases in plants

Including catabolic processes of metabolism

.121 Aerobic respiration

.124 Intercellular respiration

.128 Anaerobic respiration

.129 Transpiration in plants

.13 Nutrition and metabolism in plants

*For absorption and translocation of solutes in plants, see 581.11; catabolic processes of metabolism, 581.12; deficiency diseases in plants, 581.21*

.132 Digestion in plants

.133 Food manufacture and storage in plants

Including assimilation and anabolic processes

[†.133 2] Assimilation by autotrophic plants

Class in 581.133 42

[†.133 3] Assimilation by heterotrophic plants

Class in 581.133 43



*Botanical sciences*

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- 581.133 4            Methods of food manufacture in plants
- .133 42            Photosynthesis  
                    Manufacture of simple sugars thru carbon assimilation  
                    [formerly †581.133 52] by autotrophic plants [for-  
                    merly †581.133 2] in the presence of light  
                    Including starch synthesis
- .133 43            Chemosynthesis  
                    Manufacture of organic foods by heterotrophic plants  
                    [formerly †581.133 3] with energy derived from  
                    chemical reactions  
                    *For nitrifying bacteria, see 589.95*
- [†.133 44]        Nitrification  
                    Class in 589.95
- .133 45            Protein synthesis  
                    Manufacture of amino acids, proteins, and other ni-  
                    trogenous substances by plants from nitrogen [for-  
                    merly †581.133 53]
- .133 46            Lipid synthesis  
                    Manufacture of fats, oils, and waxes by plants from  
                    sugars
- .133 5            Mineral metabolism in plants
- [†.133 52]        Carbon  
                    Class in 581.133 42
- [†.133 53]        Nitrogen  
                    Class in 581.133 45
- .133 54            Macronutrient elements  
                    Including metabolism of sulfur, phosphorus, iron,  
                    calcium, potassium, magnesium, sodium salts
- .133 56            Micronutrient elements (Trace elements)  
                    Including metabolism of manganese, copper, zinc,  
                    boron, molybdenum, aluminum, silicon, selenium  
                    compounds
- .133 8            Food storage in plants

Decimal Classification

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581.134-581.139 Results of nutrition

- 581.134 Growth processes in plants  
*For growth movements, see 581.183*
- .134 1 Growth factors
- .134 15 Environmental factors  
Including temperature, moisture, electricity,  
mechanical forces
- .134 152 Meteorological factors
- .134 153 Light
- .134 2 Primary growth  
Growth initiated at apical meristems  
Including cell enlargement and division
- .134 3 Secondary growth  
Growth initiated at lateral meristems  
Including lateral growth of stems, roots, leaves
- .135 Development of plants  
Postembryonic development of plants  
*For embryonic development of plants, see 581.33*
- .135 3 Periods of plant development
- .135 35 Abscission  
Shedding of leaves and other organs
- .139 Longevity in plants
- .14 Secretion and excretion in plants  
*For transpiration in plants, see 581.129; plant biochemistry,  
581.192*
- .15 Plant genetics  
Including heredity and variation in plants
- .151 Physiological aspects of variation in plants  
Including xenia [*formerly* †575.135], embryological and  
cytological aspects
- .152 Environmental aspects of variation in plants  
Including effects of radiation  
*For artificial mutations in plants, see 581.159 2*
- .158 Plant hybrids



*Botanical sciences*

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- 581.159 Abrupt deviations in plants
- .159 2 Plant mutations
- Inheritable abrupt deviations
- Including artificial mutations
- .159 3 Plant sports
- Noninheritable abrupt deviations
- .16 Plant propagation
- Divide like 574.16, e.g., vegetative generation in plants 581.165
- [†.161] Abiogenesis
- Class in 577.01
- .17 Plant histogenesis
- Microscopic study of plant germ cells
- For microscopic botany, see 581.8; plant propagation, 581.16; plant gametogenesis, 581.32*
- .179 Regenerative functions in plants
- .18 Response of plants to stimuli
- Including plant behavior [*formerly also †581.51*]
- For adaptation of plants to environment, see 581.52*
- .182 Hydration movements
- Movements in nonliving plant tissues or organs resulting from hydration or dehydration of cell walls, e.g., splitting of pods, opening of capsules
- .183 Growth movements
- For mutations, see 581.185*
- .183 2 Tropisms
- Including geotropism [*formerly †612 014 477*], thigmotropism [*formerly †612.014 478*], hydrotropism, chemotropism, aerotropism, heliotropism, thermotropism, stereotropism, traumatropism
- .183 3 Nastic movements
- Movements showing no definite directional relation to stimuli
- Including epinastic [*formerly †581.185 4*], hyponastic [*formerly †581.185 5*], nyctinastic, photonastic, thermnastic movements
- .184 Turgor movements
- Movements caused by reversible changes in cell volume, e.g., wilting, opening and closing of stomates

Decimal Classification

- 581.185      Nutation and circumnutation  
                    Movements caused by unequal rates of growth, e.g., twining
- [†.185 4–†.185 5]      Epinastic and hyponastic movements  
                                Class in 581.183 3
- [†.186]      Cytoplasmic and protoplasmic movements  
                                Class in 581.11
- .19      Physics and chemistry of vital processes in plants  
                    Divide like 574.19, e.g., biosynthesis in plants 581.196  
                    *For manufacture of food in plants, see 581.133*
- .2      **Plant pathology (Phytopathology)**  
                    Plant diseases and their control  
                                *For diseases of agricultural crops, see 632; of specific crops, 633–635*
- .21      Deficiency diseases of plants
- .22      Plant teratology  
                    Including anomalies, deformations, atrophies, hypertrophies
- .23      Parasitic diseases of plants  
                    *For galls, see 581.27*
- .232      Plant diseases due to parasitic plants
- .232 2      Bacterial diseases of plants
- [†.232 4]      Smuts and bunts  
                                Class in 581.232 6
- [†.232 5]      Rusts  
                                Class in 581.232 6
- .232 6      Fungus diseases of plants  
                    Including plant diseases caused by smuts, bunts, rusts  
                    [all formerly †581.232 4–†581.232 5]
- .233      Plant diseases due to parasitic animals  
                    Including plant diseases caused by protozoans, worms,  
                    insects, other parasitic animals
- .234      Viral and rickettsial diseases of plants
- .24      Plant injuries  
                    Including injuries due to frost, excessive heat, drought, other  
                    meteorological agents



## Botanical sciences

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- 581.27 Galls
- .28 Methods of controlling plant disease
- .3 Plant maturation
- .32 Plant gametogenesis  
Formation and maturation of sex cells in plants  
*For plant histogenesis, see 581.17*
- .33 Plant embryology  
Embryonic development of plants  
*For postembryonic development of plants, see 581.135; seeds, 581.467*
- .332 Anatomy of embryonic parts of plants  
Including anatomy of embryonic tissues and stems, cotyledons, plumules, radicles, endosperms, suspensors
- .333 Germination processes
- .334 Seedling stages  
Including development of primary roots, stems, leaves
- .36 Production and differentiation of sexes in plants  
*For gametogenesis in plants, see 581.32*
- .38 Evolution of plants
- .4 Plant morphology  
Comparative anatomy of plants  
Including descriptive anatomy [*formerly †581.7*]  
*For plant histology, see 581.82; plant cytology, 581.87; anatomy of embryonic parts of plants, 581.332; ecological anatomy of plants, 581.522 5*
- .41 Circulatory organs  
Including structure of fibrovascular bundles, xylem, phloem, cambium layer, veins
- .42 Respiratory organs  
Including structure of stomates, lenticels, guard cells, intercellular spaces
- .43 Digestive organs  
*For leaves, see 581.497*
- .44 Secretory and excretory organs  
*For stomates and lenticels, see 581.42*

## Decimal Classification

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- 581.526 4      Mesic formations  
                  Adaptation of mesophytes in regions of medium  
                  conditions of moisture, e.g., prairie regions  
                  Including epiphytes, vines, lianas  
[†.526 42]      Forest formations  
                  Class in 634.94
- .526 5      Xeric formations  
                  Adaptation of halophytes and xerophytes in salt marshes,  
                  alkaline soils, arid and semiarid regions, dunes, rocks
- [†.527]      Floral regions  
                  Class in 581.9
- .53      Nutritive adaptations of plants
- .533      Nutritive specialization of plants
- .533 3      Carnivorous and insectivorous plants
- .533 4      Saprophytic plants
- .54      Adaptation of plants to climatic conditions  
                  Including seasonal adaptations
- .55      Botanical communities  
                  Including socies, consocies, clans, colonies, mutualistic and  
                  antagonistic symbioses
- .56      Reproductive adaptations of plants  
                  *For dissemination of plants, see 581.522 6*
- .57      Protective adaptations of plants  
                  Including means of protection, attraction, self-preservation  
                  *For formational ecology, see 581.526*
- .6      Economic botany  
                  Plants beneficial and deleterious to man's needs  
                  *For cultivation of specific plants, see 633-635*
- .61      Beneficial plants
- .63      Edible and medicinal plants
- .632      Edible plants



## Botanical sciences

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- 581.634      **Medical botany**  
              *For drugs of vegetable origin, see 615.3; allergenic plants, 581.67*
- .64          **Industrial botany**  
              Comprehensive works  
              *For cultivation of a specific industrial plant, see the subject, e.g., fiber crops 633.5*
- .65          **Deleterious plants**  
              Class weeds [*formerly †581.65*] in 632.58
- .67          **Allergenic plants**  
              Including poison ivy
- .69          **Poisonous plants**  
              *For poisons of vegetable origin, see 615.93*
- [†.7]        **Descriptive anatomy of plants**  
              Class in 581.4
- .8          **Microscopic botany**  
              Divide like 574.8, e.g., plant cytology 581.87  
              *For slide preparation of plant tissues, see 578.8*
- .9          **Phytogeography**  
              Geographic distribution of plants  
              Including floral regions [*formerly †581.527*]
- .909        **Zonal and physiographic botany**  
              Divide like 574.909, e.g., tropical plants 581.909 3
- .91         **Insular botany**  
              Divide like 930-999, e.g., plants of Madagascar 581.916 91
- .92         **Marine botany**  
              Divide like 551.46, e.g., plants of Caribbean Sea 581.923
- .929        **Fresh-water botany**  
              Divide like 930-999, e.g., plants of Lake Pontchartrain 581.929 763 34
- .93-.99    **Plants in specific countries**  
              Divide like 930-999, e.g., plants in Arizona 581.979 1  
              Class geographic distribution of trees [*formerly \*581.93-  
\*581.99*] in 582.160 9; of wild-flowering plants [*formerly †\*581.93-†\*581.99*] in 582.130 9, if preferred, class geographic distribution of wild-flowering plants here



**582-589 Taxonomic botany**

Concepts in the classification of botany are constantly changing, with a result that coordination and subordination of groups, which in earlier editions were shown more or less accurately by length of number, are completely upset. In this schedule coordination and subordination are shown by indention; length of number is of little significance

*For outline of alternative scheme for taxonomic botany, see 582.2-582.9; classification of plants, 580.12; paleobotany, 561; origin of species, 575*

**582 Spermatophyta (Seed-bearing plants)**

Comprehensive works

*For Dicotyledones, see 583; Monocotyledones, 584; Gymnospermae, 585*

**.1 Nontaxonomic groups of seed-bearing plants**

**.12 Herbaceous plants**

Seed plants without persistent woody tissue

*For a specific class, order, or family of herbaceous plants, see 583-585; growing condimental and sweet herbs, 635.7; herbaceous plants in landscape design, 716*

**.13 Flowering plants**

Comprehensive works

Including garden and wild flowers

*For a specific class, order, or family of flowering plants, see 583-584; flowering woody plants, 582.15; flower gardening, 635.9*

**.130 9 Geographic distribution of wild-flowering plants  
[formerly †\*581.93-†\*581.99]**

Divide like 930-999, e.g., wild flowers of Canada  
582.130 971

If preferred, class in 581.9

**.14 Other herbaceous plants**

Including succulent, carpet, mat, cushion, bush herbals



*Botanical sciences*

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- 582.15 Woody plants [*formerly* \*582.16]  
 Including flowering woody plants  
*For comprehensive works on flowering plants, see 582.13;  
 a specific class, order, or family of woody plants, 583-585*
- .16 Trees  
 Class woody plants [*formerly* \*582.16] in 582.15  
*For forestry, see 634.9; trees in landscape design, 715.2*
- .160 9 Geographic distribution of trees [*formerly*  
 \*581.93-\*581.99]  
 Divide like 930-999, e.g., trees of the United States  
 582.160 973
- .17 Shrubs  
*For shrubs in landscape design, see 715.3*
- .18 Woody vines  
*For woody vines in landscape design, see 715.4*

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**582.2-582.9 Alternative scheme for taxonomic botany**

An alternative arrangement based on the Universal Decimal Classification, which follows other authorities, was printed in edition 14, p. 1893-1906. In the skeleton outline which follows, the corresponding numbers assigned in the present (edition 16) schedule are shown in the right-hand column

.21	Cryptogamia	586
.22	Thallophyta	589
.32	Bryophyta	588
.35	Pteridophyta	587
.4	Spermatophyta	582
.42	Gymnospermae	585
.5	Angiospermae	583-584
.52-.59	Monocotyledones	584
.61-.99	Dicotyledones	583

## Decimal Classification

### 583-584 Angiospermae (Flowering plants)

Families listed under orders are based on Hutchinson, John.  
*The Families of Flowering Plants*. 1926-34

*For comprehensive works on flowering plants, see 582.13*

583

#### Dicotyledones (Dicotyledons)

If preferred, arrange Dicotyledones alphabetically by families, using A1 for comprehensive works, e.g., water lilies (Nymphaeaceae) 583 N9

.1

#### Archichlamydeae

Including comprehensive works on Polypetalae

*For Apetalae, see 583.9*

.11

#### Ranales

Including Ranunculaceae (crowfoot family), Cabombaceae, Ceratophyllaceae (hornwort family), Nymphaeaceae (water-lily family)

Class Lauraceae, Myristicaceae in 583.93 [*both formerly \*583.11*]

.112

#### Dilleniales

Including Crossosomataceae [*formerly †583.36*], Dilleniaceae

[†.113]

#### Calycanthaceae

Class in 583.3

.114

#### Magnoliales

Including Trochodendraceae, Cercidiphyllaceae [*both formerly †583.119*], Magnoliaceae (magnolia family), Winteraceae, Schizandraceae, Himantandraceae, Lactoridaceae

[†.114 6-†.114 8]

#### Myristicaceae, Monimiaceae, Gomortegaceae

Class in 583.93

.115

#### Anonales

Including Anonaceae (custard-apple family), Eupomatiaceae

[†.116]

#### Menispermaceae

Class in 583.117



583.117

Berberidales

Including Menispermaceae [*formerly* †583.116], Berberidaceae (barberry family), Circaeasteraceae, Lardizabalaceae, Sargentodoxaceae

[†.119]

Trochodendraceae and Cercidiphyllaceae

Class in 583.114

.12

Rhoeadales

Including Papaveraceae (poppy family), Fumariaceae

Class Capparidaceae [*formerly* \*583.12] in 583.13

.121

Sarraceniales

Including Droseraceae [*formerly* †583.393], Sarraceniaceae (pitcher-plant family)

[†.122 2]

Moringaceae

Class in 583.13

.123

Cruciales

Including Cruciferae (mustard family)

.13

Capparidales

Including Capparidaceae [*formerly* \*583.12], Moringaceae [*formerly* †583.122 2], Tovariaceae

Class Passiflorales in 583.45, Loasales in 583.453 [*both formerly* \*583.13]

[†.133]

Resedaceae

Class in 583.135

[†.134]

Cistaceae

Class in 583.138

.135

Violales

Including Resedaceae (mignonette family) [*formerly* †583.133], Violaceae (violet family)

[†.136-†.137]

Cochlospermaceae and Canellaceae

Class in 583.138

Decimal Classification

- 583.138      **Bixales**  
Including Cochlospermaceae [*formerly* †583.136], Canellaceae (wild cinnamon family) [*formerly* †583.137], Samyda-  
ceae [*formerly* †583.451], Cistaceae [*formerly* †583.134],  
Flacourtiaceae [*formerly* †583.139], Bixaceae (arnotto fam-  
ily)
- [†.139]      **Flacourtiaceae**  
Class in 583.138
- [†.139 2]      **Stachyuraceae**  
Class in 583.394
- .14      **Polygalales**  
Including Trigoniaceae [*formerly* †583.215], Polygalaceae,  
Vochysiaceae (San Juan family)
- .141      **Pittosporales**  
Including Byblidaceae [*formerly* †583.392], Tremandraceae  
[*formerly* †583.142], Pittosporaceae (hedge laurel family)
- [†.142]      **Tremandraceae**  
Class in 583.141
- .15      **Caryophyllales**  
Including Elatinaceae (waterwort family) [*formerly*  
†583.161], Molluginaceae [*formerly* †583.476], Ficoida-  
ceae [*formerly* †583.475], Portulacaceae (purslane fam-  
ily), Caryophyllaceae (pink family)
- [†.151]      **Frankeniaceae**  
Class in 583.158
- [†.156 2]      **Basellaceae**  
Class in 583.91
- .158      **Tamaricales**  
Including Frankeniaceae [*formerly* †583.151], Fouquieria-  
ceae [*formerly* †583.762], Tamaricaceae (tamarisk family)
- .16      **Theales**  
Including Ochnaceae (red ironwood family) [*formerly*  
†583.245], Ancistrocladaceae [*formerly* †583.454], Diptero-  
carpaceae, Chlaenaceae, Theaceae (tea, camellia family),  
Medusagynaceae, Marcgraviaceae, Caryocaraceae, Actinidi-  
aceae, Saurauiaceae
- [†.161]      **Elatinaceae**  
Class in 583.15



*Botanical sciences*

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- [†583.162]      **Hypericaceae**  
                  Class in 583.163
- .163            **Guttiferales**  
                  Including Hypericaceae (St.-John's-wort family) [*formerly* †583.162], Eucryphiaceae [*formerly* †583.164], Quiinaceae [*formerly* †583.165], Guttiferae (balsam fig family)
- [†.164–†.165]      **Eucryphiaceae and Quiinaceae**  
                  Class in 583.163
- .17            **Malvales**  
                  Including Malvaceae (mallow, cotton family)
- [†.173–†.18]      **Bombacaceae and Sterculiaceae**  
                  Class in 583.19
- .19            **Tiliales**  
                  Including Sterculiaceae (coco family) [*formerly* †583.18], Bombacaceae (silk-cotton tree family) [*formerly* †583.173], Scytometalaceae, Tiliaceae (linden family), Gonystylaceae
- .21            **Geraniales**  
                  Including Limnanthaceae (false-mermaid family) [*formerly* †583.294], Linaceae (flax family); Zygophyllaceae (lignum vitae family), Geraniaceae (geranium family), Oxalidaceae (wood-sorrel family), Tropaeolaceae (nasturtium family), Balsaminaceae (jewelweed family) [*all formerly* †583.221–†583.226]
- [†.212–†.213]      **Erythroxyllaceae and Humiriaceae**  
                  Class in 583.214
- .214            **Malpighiales**  
                  Including Humiriaceae [*formerly* †583.213], Erythroxyllaceae [*formerly* †583.212], Malpighiaceae
- [†.215]            **Trigoniaceae**  
                  Class in 583.14
- [†.221–†.226]      **Zygophyllaceae, Geraniaceae, Oxalidaceae, Tropaeolaceae, Balsaminaceae**  
                  Class in 583.21
- [†.23]            **Rutales**  
                  Class in 583.24

*Decimal Classification*

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- 583.24      Rutales [*formerly* †583.23]  
                 Including Rutaceae (rue family), Simarubaceae (ailanthus family), Burseraceae (torchwood family)
- [†.242]      Cneoraceae  
                 Class in 583.27
- [†.245]      Ochnaceae  
                 Class in 583.16
- .25          Meliales  
                 Including Meliaceae (mahogany family)
- [†.252]      Akaniaceae  
                 Class in 583.28
- [†.253]      Callitrichiaceae  
                 Class in 583.44
- [†.255]      Chailletiaceae  
                 Class in 583.3
- .26          Olacales  
                 Including Opiliaceae [*formerly* †583.945], Olacaceae
- .27          Celastrales  
                 Including Empetraceae (crowberry family) [*formerly* †583.984], Cneoraceae [*formerly* †583.242], Pandaceae [*formerly* †583.985], Icacinaceae [*formerly* †583.289], Salvadoraceae [*formerly* †583.716], Stackhousiaceae, Celastraceae (staff-tree family), Corynocarpaceae, Cyrillaceae, Aquifoliaceae (holly family), Hippocrateaceae
- [†.277]      Staphyleaceae  
                 Class in 583.28
- .279         Rhamnales  
                 Including Elaeagnaceae [*formerly* †583.935], Heteropyxidaceae [*formerly* †583.442], Ampelidaceae (grape family), Rhamnaceae (buckthorn family)



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- 583.28      Sapindales  
              Including Akaniaceae [*formerly* †583.252], Sabiaceae [*formerly* †583.291], Staphyleaceae [*formerly* †583.277], Anacardiaceae (cashew, sumac family) [*formerly* †583.292], Connaraceae [*formerly* †583.311], Didiereaceae, Melianthaceae (honey-plant family), Aceraceae (maple family), Sapindaceae (soapberry family)
- [†.287 2]      Greyianaceae  
                  Class in 583.397
- [†.289]      Icacinaceae  
                  Class in 583.27
- .29      Coriariales  
              Including Coriariaceae
- [†.291-†.292]      Sabiaceae and Anacardiaceae  
                  Class in 583.28
- [†.293]      Buxaceae  
                  Class in 583.394
- [†.294]      Limnanthaceae  
                  Class in 583.21
- .3      Rosales  
              Including Chailletiaceae [*formerly* †583.255], Calycanthaceae [*formerly* †583.113], Rosaceae (rose family)
- [†.311]      Connaraceae  
                  Class in 583.28
- .32      Leguminosae  
              Including Caesalpinaceae (senna family), Mimosaceae (mimosa family), Papilionaceae (pea family)
- [†.36]      Crossosomataceae  
                  Class in 583.112

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- 583.38 Saxifragales  
Including Crassulaceae [*formerly* †583.39], Cephalotaceae (Australian pitcher-plant family) [*formerly* †583.391], Saxifragaceae (saxifrage family)
- [†.381] Escalloniaceae, Grossulariaceae, Hydrangeaceae  
Class in 583.397
- [†.39-†.391] Crassulaceae and Cephalotaceae  
Class in 583.38
- [†.392] Byblidaceae  
Class in 583.141
- [†.393] Droseraceae  
Class in 583.121
- .394 Hamamelidales  
Including Bruniaceae [*formerly* †583.396], Stachyuraceae [*formerly* †583.139 2], Buxaceae [*formerly* †583.293], Platanaceae [*formerly* †583.971], Hamamelidaceae (witch-hazel family), Eucommiaceae, Myrothamnaceae
- [†.395] Brunelliaceae  
Class in 583.397
- [†.396] Bruniaceae  
Class in 583.394
- .397 Cunoniales  
Including Escalloniaceae, Grossulariaceae, Hydrangeaceae [*all formerly* †583.381]; Brunelliaceae [*formerly* †583.395], Greyiaceae [*formerly* †583.287 2], Cunoniaceae
- .4 Myrtales  
Including Myrtaceae (myrtle family), Lecythidaceae (Brazil-nut family), Melastomaceae (meadow-beauty family), Combretaceae (myrobalan family), Rhizophoraceae (mangrove family)
- [†.412-†.413] Punicaceae and Hydrocaryaceae  
Class in 583.44
- [†.415-†.416] Nyssaceae and Alangiaceae  
Class in 583.48
- [†.417] Halorrhagaceae  
Class in 583.44



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- 583.44 Lythrales  
Including Punicaceae (pomegranate family) [formerly †583.412], Oliniaceae [formerly †583.937], Hydrocaryaceae [formerly †583.413], Halorrhagaceae [formerly †583.417], Callitrichiaceae [formerly †583.253], Onagraceae, Lythraceae (loosestrife family), Crypteroniaceae, Sonneratiaceae
- [†.442] Heteropyxidaceae  
Class in 583.279
- [†.447] Cynomorium  
Class in 583.94
- .45 Passiflores [formerly \*583.13]  
Including Malesherbiaceae, Passifloraceae (passionflower family), Achariaceae
- [†.451] Samydaceae  
Class in 583.138
- .453 Loasales [formerly \*583.13]  
Including Turneraceae [formerly †583.455], Loasaceae
- [†.454] Ancistrocladaceae  
Class in 583.16
- [†.455] Turneraceae  
Class in 583.453
- .46 Cucurbitales  
Including Cucurbitaceae (gourd family) [formerly \*583.57], Begoniaceae (begonia family), Datisceae (false hemp family), Caricaceae (papaya family)
- .47 Cactales  
Including Cactaceae (cactus family)
- [†.475-†.476] Ficoidaceae and Molluginaceae  
Class in 583.15
- .48 Umbelliflorae  
Including Cornaceae (dogwood family) [formerly †583.497], Alangiaceae [formerly †583.416], Nyssaceae (tupelo family) [formerly †583.415], Araliaceae (ginseng family) [formerly †583.491], Umbelliferae (carrot family)
- [†.491-†.497] Araliaceae and Cornaceae  
Class in 583.48

*Decimal Classification*

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- 583.5 Metachlamydeae (Sympetalae)
- [†\*.51] Rubiales  
Class in 583.52
- [†.511] Caprifoliaceae  
Class in 583.52
- [†.513] Adoxaceae  
Class in 583.53
- .52 Rubiales [*formerly* †\*583.51]  
Including Caprifoliaceae (honeysuckle family) [*formerly* †583.511, \*583.51], Rubiaceae (madder family) [*formerly* \*583.51]
- .53 Asterales  
Including Adoxaceae [*formerly* †583.513], Dipsacaceae (teasel family) [*formerly* †583.541], Calyceraceae [*formerly* †583.546], Valerianaceae (valerian family)
- [†.541] Dipsacaceae  
Class in 583.53
- [†.546] Calyceraceae  
Class in 583.53
- .55 Compositae (Composites)  
Including chicory, lettuce, thistles, calendulas, ground-sels, camomiles, everlasting flowers, asters, sneezeweed, ironweed, ragweed, sunflowers
- .57 Campanales  
Including Campanulaceae (bluebell, bellflower family) [*formerly* †583.59], Lobeliaceae (lobelia family) [*formerly* †583.591], Goodeniaceae [*formerly* †583.58], Stylidiaceae  
Class Cucurbitaceae [*formerly* \*583.57] in 583.46
- [†.58] Goodeniaceae  
Class in 583.57
- [†.59-†.591] Campanulaceae and Lobeliaceae  
Class in 583.57



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583.6

Ericales

Including Clethraceae (white-alder family), Ericaceae (heath family), Vacciniaceae (huckleberry, wintergreen family), Epacridaceae, Monotropaceae (Indian-pipe family), Diapensiaceae (flowering-moss family), Lennoaceae

.67

Primulales

Including Primulaceae (primrose family), Plumbaginaceae (plumbago family)

.677

Myrsinales

Including Theophrastaceae [*formerly* †583.678], Myrsinaceae (marlberry family)

[†.678]

Theophrastaceae

Class in 583.677

.68

Ebenales

Including Ebenaceae (ebony family), Sapotaceae (sapodilla family)

.686

Styracales

Including Styracaceae (storax family), Symplocaceae (sweetleaf family), Dichlantheraceae, Lissocarpaceae

.7

Gentianales

Including Gentianaceae (gentian, buck-bean family)

[†.71]

Oleaceae

Class in 583.74

[†.716]

Salvadoraceae

Class in 583.27

.72

Apocynales

Former heading: Gentianineae

Including Asclepiadaceae (milkweed family) [*formerly* †583.73], Apocynaceae (dogbane family)

[†.73]

Asclepiadaceae

Class in 583.72

.74

Loganiales

Including Oleaceae (olive family) [*formerly* †583.71], Loganiaceae (Desfontaineaceae)

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- 583.76      **Polemoniales**  
Former heading: Tubiflorae  
Including Polemoniaceae (phlox family), Hydrophyllaceae  
(waterleaf family)
- [†.762]      **Fouquieriaceae**  
Class in 583.158
- .77      **Boraginales**  
Including Boraginaceae (borage, forget-me-not family)
- [†.78]      **Convolvulaceae**  
Class in 583.79
- .79      **Solanales**  
Including Convolvulaceae (morning-glory family) [*formerly*  
†583.78], Solanaceae (nightshade family)
- .8      **Personales**  
Including Scrophulariaceae (snapdragon family), Oroban-  
chaceae, Lentibulariaceae (bladderwort family), Columel-  
liaceae, Gesneriaceae (gloxinia, African violet, flame violet),  
Bignoniaceae (catalpa family), Pedaliaceae (pedalium, uni-  
corn-plant family), Acanthaceae (acanthus family)
- [†.823]      **Globulariaceae**  
Class in 583.87
- .87      **Lamiales**  
Including Globulariaceae (globe daisy family) [*formerly*  
†583.823], Myoporaceae, Selaginaceae, Phrymaceae (lop-  
seed family)
- .88      **Verbenaceae** (Vervain family)
- .89      **Labiatae** (Mint family)
- .899      **Plantaginales**  
Including Plantaginaceae (plantain family)



- 583.9 Monochlamydeae (Apetalae)
- .91 Chenopodiales  
Former heading: Centrospermae  
Including Basellaceae [formerly †583.156 2], Phytolaccaceae (pokeweed family), Cynocrambaceae (dog cabbage family), Chenopodiaceae (goosefoot family), Batidaceae, Amaranaceae (amaranth family)
- [†.912] Illecebraceae  
Class in 583.917
- [†.915 3] Nyctaginaceae  
Class in 583.933
- .917 Polygonales  
Including Illecebraceae [formerly †583.912], Polygonaceae (buckwheat family)
- .92 Podostemonales  
Including Podostemonaceae (riverweed family), Hydrostachyaceae
- .922 Aristolochiales  
Including Aristolochiaceae [formerly †583.924], Cytinaceae [formerly †583.923], Hydnoraceae, Nepenthaceae (Indian pitcher-plant family)
- [†.923-†.924] Cytinaceae and Aristolochiaceae  
Class in 583.922
- .925 Piperales  
Including Lacisternaceae [formerly †583.983], Piperaceae (pepper family), Saururaceae (lizard's-tail family), Chloranthaceae
- .93 Laurales  
Former heading: Daphnales  
Including Monimiaceae [formerly †583.114 7], Lauraceae (laurel family) [formerly \*583.11], Gomortegaceae [formerly †583.114 8], Myristicaceae [formerly †583.114 6, \*583.11], Hernandiaceae
- .932 Proteales  
Including Proteaceae (honeyflower)

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- 583.933 Thymelaeales  
Including Geissolomataceae [*formerly* †583.936], Penaeaceae [*formerly* †583.934], Nyctaginaceae (four-o'clock family) [*formerly* †583.915 3], Thymelaeaceae
- [†.934] Penaeaceae  
Class in 583.933
- [†.935] Elaeagnaceae  
Class in 583.279
- [†.936] Geissolomataceae  
Class in 583.933
- [†.937] Oliniaceae  
Class in 583.44
- .94 Santalales  
Including Balanophoraceae (*Cynomorium* [*formerly* †583.447]), Octoknemataceae, Loranthaceae (mistletoe family), Santalaceae (sandalwood family), Grubiaceae, Myzodendraceae
- [†.945] Opiliaceae  
Class in 583.26
- .95 Euphorbiales  
Including Euphorbiaceae (spurge family)
- .96 Balanopsidales  
Including Balanopsidaceae
- .962 Urticales  
Including Ulmaceae (elm family), Barbeyaceae, Moraceae (mulberry family), Scyphostegiaceae, Urticaceae (nettle family), Cannabinaceae
- .97 Fagales  
Including Betulaceae (birch family), Corylaceae, Fagaceae (beech, oak family)
- [†.971] Platanaceae  
Class in 583.394
- .972 Leitneriales  
Including Leitneriaceae (corkwood family)
- .973 Juglandales  
Including Juglandaceae (walnut family), Julianiaceae



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- 583.974 Myricales  
Including Myricaceae (bayberry family)
- .975 Casuarinales  
Including Casuarinaceae (beefwood family)
- .98 Salicales  
Including Salicaceae (willow family)
- .982 Garryales  
Including Garryaceae (feverbush)
- [†.983] Lacistemaceae  
Class in 583.925
- [†.984–†.985] Empetraceae and Pandaceae  
Class in 583.27
- 584 **Monocotyledones (Monocotyledons)**  
If preferred, arrange Monocotyledones alphabetically by families,  
using A1 for comprehensive works, e.g., orchids (Orchidaceae)  
584 O7
- [†.11] Hydrocharitaceae  
Class in 584.73
- [†.12] Orchidales  
Class in 584.15
- .13 Burmanniales  
Including Burmanniaceae, Thismiaceae, Corsiaceae
- .15 Orchidales [*formerly also* †584.12]  
Including Orchidaceae (orchid family)
- .2 Haemodorales  
Former heading: Epigynae  
Including Philydraceae [*formerly* †584.35], Haemodoraceae  
(bloodwort family), Hypoxidaceae, Velloziaceae (tree lily fam-  
ily), Apostasiaceae, Taccaceae
- .21 Zingiberales  
Former heading: Scitaminales  
Including Musaceae (banana family), Strelitziaceae, Lowia-  
ceae, Zingiberaceae (ginger family), Cannaceae (canna fam-  
ily), Marantaceae (arrowroot family)

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- 584.22 Bromeliales  
Including Bromeliaceae (pineapple family) [*formerly* \*584.3]
- [†\*.23] Liliales  
Class in 584.32; Juncaceae in 584.45
- .24 Iridales  
Including Iridaceae (iris family)
- .25 Amaryllidales  
Including Amaryllidaceae (amaryllis family)
- .27 Dioscoreales  
Including Roxburghiaceae [*formerly* †584.31], Dioscoreaceae (yam family), Stenomeridaceae, Trichopodaceae
- .3 Xyridales  
Including Xyridaceae (yellow-eyed grass family), Rapateaceae  
Class Bromeliaceae [*formerly* \*584.3] in 584.22
- [†.31] Roxburghiaceae  
Class in 584.27
- .32 Liliales [*formerly also* †\*584.23]  
Including Pontederiaceae, Cyanastraceae [*both formerly* †584.33-†584.34]; Smilacaceae (cat briers), Ruscaceae, Liliaceae (lily family), Tecophilaeaceae, Trilliaceae (trillium family)
- [†.33-†.34] Pontederiaceae and Cyanastraceae  
Class in 584.32
- [†.35] Philydraceae  
Class in 584.2
- .37 Mayacaceae (Mayaca family)
- .38 Commelinales  
Comprehensive works  
Including Flagellariaceae [*formerly* †584.41], Commelinaceae (spiderwort family)  
*For Mayacaceae, see 584.37*
- [†.391] Thurniaceae  
Class in 584.45
- [†.41] Flagellariaceae  
Class in 584.38



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- 584.42 Alstroemeriales  
Including Alstroemeriaceae, Petermanniaceae, Philesiaceae
- .43 Agavales  
Including Xanthorrhoeaceae, Agavaceae
- .45 Juncales  
Including Juncaceae (rush family) [*formerly* \*584.23],  
Thurniaceae [*formerly* †584.391], Centrolepidaceae  
[*formerly* †584.82], Restionaceae [*formerly*  
†584.83]
- .5 Palmales  
Including Palmae (palm family)
- .61 Pandanales  
Including Pandanaceae (hala family)
- .612 Sparganiaceae (Bur-reed family)
- .613 Typhales  
Comprehensive works  
Including Typhaceae (cattail family)  
*For Sparganiaceae, see* 584.612
- .62 Cyclanthales  
Including Cyclanthaceae
- .64 Arales  
Including Araceae (arum family) [*formerly* †584.65],  
Lemnaceae (duckweed family) [*formerly* †584.68]
- [†.65-†.68] Araceae (Arum family) and Lemnaceae (Duckweed  
family)  
Class in 584.64
- .71 Triuridales  
Including Triuridaceae
- .72 Najadales  
Including Najadaceae (najas family) [*formerly* †584.741],  
Zannichelliaceae
- .721 Alismatales  
Including Scheuchzeriaceae [*formerly* †584.744], Alismataceae  
(water-plantain family), Petrosaviaceae
- .73 Butomales  
Including Hydrocharitaceae (frogbit family) [*formerly*  
†584.11], Butomaceae (water poppy family)

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- 584.74 Potamogetonales  
Including Potamogetonaceae (pondweed family), Ruppiaceae
- [†.741] Najadaceae (Najas family)  
Class in 584.72
- .743 Aponogetonales  
Including Aponogetonaceae (lattice-plant family), Zosteraceae
- .744 Juncaginales  
Including Juncaginaceae (arrow-grass family), Lilaeaceae,  
Posidoniaceae  
Class Scheuchzeriaceae [*formerly* †584.744] in 584.721
- [†\*.8] Graminales  
Class in 584.9
- .81 Eriocaulales  
Including Eriocaulaceae (pipewort family)
- [†.82-†.83] Centrolepidaceae and Restionaceae  
Class in 584.45
- .84 Cyperales  
Including Cyperaceae (sedge family)
- .9 Graminales [*formerly also* †\*584.8]  
Including Gramineae (grass family)
- .92 Panicoideae  
Including Paniceae (millet grasses), Andropogoneae (sugar  
cane, Kaffir corn grasses), Maydeae (Indian corn grasses)
- [†.923] Zoysieae  
Class in 584.93
- [†.927] Oryzeae  
Class in 584.93
- .93 Pooideae  
Including Zoysieae [*formerly* †584.923], Oryzeae (rice  
grasses) [*formerly* †584.927], Bambuseae (bamboo family),  
Festuceae (fescue grasses), Phalarideae (canary grasses),  
Agrosteae (fodder grasses), Aveneae (oat grasses), Horde-  
eae (wheat, barley, rye grasses), Chlorideae (gamma  
grasses)



- 585 **Gymnospermae (Naked-seed plants)**  
If preferred, arrange Gymnospermae alphabetically by families, using A1 for comprehensive works, e.g., spruce (Pinaceae) 585 P6
- .1 **Gnetales**  
Including Gnetaceae (gnetum family), Welwitschiaceae (welwitschia family), Ephedraceae (ephedra, Mormon tea family)
- .2 **Coniferales (Conifers)**  
Including Podocarpaceae (podocarp family), Phyllocladaceae (phyllocladus family), Taxaceae (yew family), Araucariaceae (araucaria family), Pinaceae (pine family), Taxodiaceae (bald cypress family), Cupressaceae (cypress family)
- .7 **Ginkgoales**  
Including Ginkgoaceae (maidenhair trees, ginkgo trees)
- .9 **Cycadales (Cycads)**  
Including Cycadaceae, Zamiaceae (sage palm family)
- 586 **Cryptogamia (Seedless plants)**  
Comprehensive works  
*For Pteridophyta, see 587; Bryophyta, 588; Thallophyta, 589*
- 587 **Pteridophyta (Vascular cryptogams)**
- .1 **Isoetales (Quillworts)**  
Including Isoetes  
*For comprehensive works on Lycopsidea, see 587.9*
- .2 **Sphenopsida**  
Including Equisetaceae (horsetail family)
- .3 **Filicineae**
- .31 **Filicales (Ferns)**  
Including Osmundaceae (flowering fern family), Schizaeaceae (curly grass family), Gleicheniaceae (gleichenia family), Hymenophyllaceae (filmy fern family), Dicksoniaceae (Dicksonia family), Cyatheaceae (cyathea family), Polypodiaceae (polypody family), Marsiliaceae (water clover family), Salviniaceae (salvinia family)
- .33 **Eusporangiated ferns**  
Including Ophioglossales (adder's tongue, grape, rattlesnake ferns), Marattiales
- .4 **Psilopsida**  
Including Psilotales

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- 587.9      **Lycopsidea (Club mosses)**  
            Comprehensive works  
            Including Lycopodiales, Selaginellales  
            *For Isoetales, see 587.1*
- 588      **Bryophyta**
- .1      **Sphagnales**  
            Including Sphagnaceae (peat and bog mosses)
- .2      **Musci (True mosses)**  
            Comprehensive works  
            Including Bryales (common mosses), Andreaeales (black mosses)  
            *For Sphagnales, see 588.1*
- .3      **Hepaticae (Liverworts)**  
            Including Ricciaceae, Marchantiaceae (great liverworts),  
            Jungermanniaceae (scale mosses)
- .32     **Anthocerotales (Hornworts)**
- [†.4]     **Charales**  
            Class in 589.47
- 589      **Thallophyta**
- .1      **Lichenes (Lichens)**  
            Symbiotic associations of fungi and algae  
            *For a specific fungus or alga, see the subject, e.g.,  
            Ascomycetes 589.23*
- .2      **Eumycophyta (True fungi)**  
            Former heading: Mycophyta  
            Including comprehensive works on mycology  
            *For Lichenes, see 589.1*
- [†.21]     **Basidiomycetes**  
            Class in 589.22



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- 589.22 Basidiomycetes (Basidium fungi) [*formerly* †589.21]  
.221 Lycoperdales (Puffballs and related fungi)  
Former heading: Autobasidiomycetes  
Including Hymenogastrales (false tubers), Nidulariales (bird's-nest fungi), Phallales (stinkhorn fungi)  
.222 Agaricales (Mushrooms and related fungi)  
Including Agaricaceae (gill fungi), Polyporaceae (pore fungi)  
.225 Uredinales (Rust fungi)  
.227 Ustilaginales (Smut fungi)  
.23 Ascomycetes (Sac fungi)  
Including Plectomycetes, Discomycetes, Pyrenomycetes  
Common names: yeasts, Penicillium, mildews, cup fungi, black rot, ergot  
*For downy mildews, see 589.25*  
.24 Deuteromycetes (Imperfect fungi)  
Including Moniliales (Hypomycetales), Sphaeropsidales, Melanconiales  
.25 Phycomycetes (Algaelike fungi)  
Comprehensive works on molds  
Including Peronosporales (downy mildews)  
*For Saprolegniales, see 589.26; Mucorales and other Phycomycetes, 589.28*  
.26 Saprolegniales (Water molds)  
.28 Mucorales and other Phycomycetes  
Including Mucorineae (black mold), Entomorphthorales (fly fungi), Chytridiales (chytrids)  
.29 Myxomycophyta (Slime molds)  
Including Stemonitaceae, Arcyriaceae  
.3 Algae (Phycology)  
*For Cyanophyta, see 589.8*  
.41 Rhodophyta (Red algae)  
Including Bangioideae [*formerly* †589.42], Florideae (red seaweeds, sea mosses)  
[†.42] Bangioideae  
Class in 589.41



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- 589.43 Pyrrophyta (Dinoflagellates) [*formerly* †589.973]  
Including Desmomonadales, Prorocentrales, Gymnodiniales,  
Amphilothales, Kolkwitziellales, Dinophysiales, Peridinales,  
Rhizodinales, Dinococcales, Dinotrichales
- .44 Euglenophyta [*formerly* †589.974, \*589.97]  
Euglenoids  
Including Euglenaceae, Colaciaceae, Astasiaceae,  
Peranemaceae
- .45 Phaeophyta (Brown algae)  
Including Ectocarpales (kelps), Sphacelariales, Cutleriales,  
Tilopteridales, Chordariales, Sporochnales, Desmarestiales,  
Dictyosiphonales, Laminariales, Fucales (seaweeds, rock-  
weeds)
- .47 Chlorophyta (Green algae)  
Including Conjugales [*formerly* †589.61], Charales [*for-  
merly* †588.4], Volvocales, Chlorococcales, Ulotrichales,  
Siphonales, Cladophorales, Chaetophorales, Oedogoniales
- .48 Chrysophyta (Golden algae)  
Comprehensive works  
Including Xanthophyceae (yellow-green algae),  
Chrysophyceae  
*For Bacillariophyceae, see 589.62*
- [†.61] Conjugales  
Class in 589.47
- .62 Bacillariophyceae (Diatoms)  
Including Centrales, Pennales; comprehensive works on  
phytoplankton  
*For a specific phytoplankton, see the subject, e.g.,  
Dinoflagellates 589.43*
- .7 Schizophyta (Fission plants)  
Including comprehensive works on bacteria, yeasts, molds  
*For bacteria, see 589.9; yeasts, 589.23; molds, 589.25;  
Cyanophyta, 589.8*
- .8 Cyanophyta (Blue-green algae)  
Including Chroococcaceae, Chamaesiphonaceae, Clastidia-  
ceae, Stigonemataceae, Nostocaceae, Rivulariaceae, Scytone-  
mataceae, Oscillatoriaceae  
Common names: Myxophyceae, Schizophyceae,  
Cyanophyceae



- 589.9 Schizomycetes (Bacteriology)  
Class Rickettsiae [*formerly* \*589.9] in 576.6  
*For microbiology, see 576; a specific application of bacteriology, the subject, e.g., medical bacteriology 616.014*
- .92 Actinomycetales [*formerly* †589.953]  
Including Mycobacteriaceae, Actinomycetaceae
- .93 Chlamydobacteriales [*formerly* †589.953]  
Including Chlamydobacteriaceae
- .94 Caulobacteriales  
Including Nevskiaceae, Gallionellaceae,  
Caulobacteriaceae, Pasteuriaceae
- .95 Eubacteriales  
Including Nitrobacteriaceae [*formerly also* †581 133 44],  
Rhizobiaceae, Pseudomonadaceae, Acetobacteriaceae,  
Azotobacteriaceae, Micrococcaceae, Neisseriaceae, Par-  
vobacteriaceae, Lactobacteriaceae, Enterobacteriaceae,  
Bacteriaceae, Bacillaceae
- [†.952] Thiobacteriales  
Class in 589.96
- [†.953] Eubacteriales  
Class Actinomycetales in 589.92, Chlamydobacteriales in  
589.93; Myxobacteriales in 589.98
- .96 Thiobacteriales [*formerly* †589.952]  
Including Rhodobacteraceae, Beggiatoaceae,  
Achromatiaceae
- [\*.97] Euglenophyta  
Class in 589.44
- [†.973] Pyrrophyta (Dinoflagellates)  
Class in 589.43
- [†.974] Euglenophyta  
Class in 589.44
- .98 Myxobacteriales [*formerly* †589.953]  
Including Archangiaceae, Sorangiaceae, Polyangiaceae,  
Myxococcaceae
- .99 Spirochaetales  
Including Spirochaetaceae

Decimal Classification

590 Zoological sciences

*For paleozoology, see 560, 562-569; animal husbandry, 636-638; animal psychology, 151.3; organic evolution, 575*

.74 Zoological exhibits

Class aquariums [*formerly* †\*590.74] in 574.920 74

*For arrangement of specimens in museums, see 579.7*

.742 Zoological museums

.744 Zoological gardens

591 Zoology

*For a specific aspect of an individual animal or group of animals, see the animal or group, e.g., hibernation of bears 599.744 4; taxonomic zoology, 592-599*

SUMMARY

- 591.1 Animal physiology (Zoophysiology)
- .2 Animal pathology
- .3 Animal maturation
- .4 Animal morphology
- .5 Animal ecology
- .6 Economic zoology
- .8 Microscopic zoology
- .9 Zoogeography

✓ .1 Animal physiology (Zoophysiology)

Comparative physiology of animals

Divide like 574.1, e.g., reproduction in animals 591.16

Class veterinary physiology [*formerly* \*591.1] in 636.089 2

*For human physiology, see 612*

.15 Animal genetics

Study of heredity and variation in animals

Including telegony [*formerly* †575.136]

Divide like 581.15, e.g., mutations in animals 591.159 2

*For stock breeding, see 636.082*

[†.161] Abiogenesis

Class in 577.01



*Zoological sciences*

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- 591.17      **Animal histogenesis [formerly \*591.8]**  
              Microscopic study of germ cells in animals  
              Class animal gametogenesis [formerly \*591.17] in 591.32  
              *For microscopic zoology, see 591.8; animal reproduction,*  
              591.16
- .2          **Animal pathology**  
              *For veterinary medicine, see 636.089*
- .3          **Animal maturation**
- .32         **Animal gametogenesis [formerly \*591.17]**  
              Formation and maturation of sex cells in animals  
              *For animal histogenesis, see 591.17*
- .33         **Animal embryology**  
              Comparative studies on early developmental stages  
              Including cleavage, formation of primary germ layers and cavi-  
              ties, establishment of embryonic axes and symmetry, develop-  
              ment of coelomic cavities and organ systems, final development  
              into functionally integrated organism  
              *For postembryonic growth and development of animals, see*  
              591.13
- .34         **Metamorphoses**  
              Including complete and incomplete metamorphoses
- .36         **Production and differentiation of sexes in animals**  
              *For gametogenesis, see 591.32*
- .38         **Evolution of animals**
- ✓.4        **Animal morphology**  
              ✓ Comparative anatomy of animals  
              Including descriptive anatomy [formerly †591.7]  
              *For microscopic zoology, see 591.8*
- .41         **Circulatory organs**
- ✓.42        **Respiratory organs**
- .43         **Digestive organs**

Decimal Classification

- 591.44      Secretory and excretory organs  
                 Including exocrine and endocrine glands of animals
- .46          Reproductive organs
- .47          Muscular, skeletal, integumentary organs
- .48          Organs of nervous system
- .49          Topographical anatomy
- .5          **Animal ecology**  
                 Interrelation of animals to environment and to each other  
                 Including adaptation to environment, group behavior of animals
- .508        Animal stories [*formerly the \*800's*] and animal lore  
                 *For animals in folklore, see 398; stories of a specific domesti-*  
                 *cated animal, 636-638, e.g., dogs in literature 636.78; stories*  
                 *of a specific wild animal, the animal, e.g., squirrels 599.323 2*
- .51        Behavior patterns of animals in nature  
                 Comprehensive works  
                 *For a specific behavior pattern, see the subject, e.g.,*  
                 *hibernation 591.543, comparative psychology, 151.3*
- .52        Animal migrations  
                 Including daily, seasonal and secular migrations; homings
- .53        Nutritive adaptations of animals  
                 Including food chains and cycles
- .54        Adaptations of animals to meteorological factors
- .542        Adaptations of animals to climatic conditions  
                 Including adaptations of animals to storms, rain, drought
- .543        Adaptations of animals to seasonal changes  
                 Including hibernation [*formerly also †612.58*], estivation
- .55        Zoological communities  
                 Including animal aggregations, mutualistic and antagonistic  
                 symbioses



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*Zoological sciences*

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- 591.56      Reproductive adaptations of animals  
            Adaptive breeding habits of animals
- .57          Protective adaptations of animals  
            Including means of protection, attraction, self-preservation
- .59          Animal communication
- .6          **Economic zoology**  
            Animals beneficial and deleterious to man's needs  
            *For animal husbandry, see 636-638; animals as injurious factors  
            in crop production, 632.6-632.7*
- .69          Poisonous animals
- [†.7]        **Descriptive anatomy of animals**  
            Class in 591.4
- .8          **Microscopic zoology**  
            Including animal histology and cytology  
            Class histogenesis [*formerly \*591.8*] in 591.17  
            *For slide preparation of animal tissues, see 578.9*
- .9          **Zoogeography**  
            Geographic distribution of animals  
            *For distribution of specific animals or groups of animals, see  
            592-599*
- .909        Zonal and physiographic zoology  
            Divide like 574.909, e.g., tropical animals 574.909 3
- .91         Insular zoology  
            Divide like 930-999, e.g., animals of Madagascar 591.916 91
- .92         Marine zoology  
            Divide like 551.46, e.g., Arctic Ocean animals 591.928
- .929        Fresh-water zoology  
            Divide like 930-999, e.g., animal life in Great Lakes  
            591.929 77
- .93-.99    Zoogeography in specific countries  
            Divide like 930-999, e.g., animals of Alaska 591.979 8

Decimal Classification

- 593.5 Metazoa  
Including Coelenterata (Cnidaria) [*formerly also* †593.3],  
Enterozoa, Radiata  
*For Mollusca, see 594, Articulata, 595; Chordata, 596-599*
- .6 Anthozoa  
Including Alcyonaria, Ceriantharia, Antipitharia, Dodecacorallia  
Common names: sea anemones, corals, sea fans, sea pens
- .7 Hydrozoa  
Including Hydroida, Trachylina, Milleporina, Stylasterina,  
Siphonophora  
Common names: jellyfish [*formerly also* †593.8], hydras,  
medusas, hydroid polyps
- .73 Scyphozoa  
Former heading: Acalepha  
Including Lucernariidea, Charybdeidea, Corona,  
Semaestomeae, Rhizostomeae
- .8 Ctenophorae  
Including Tentaculata, Nuda  
Common names: sea walnuts, comb jellies  
Class jellyfish [*formerly* †593.8] in 593.7
- .9 Echinodermata
- .91 Pelmatozoa  
Including Crinoidea (sea lilies)
- .92 Asterozoa  
Class starfish [*formerly* †593.92] in 593.93
- .93 Asteroidea (Starfish) [*formerly* †593.92]  
Former heading: Stelleridea  
Including Phanerozoona, Spinulosa, Forcipulata
- .94 Ophiuroidea  
Including Phrynophiurida, Laemophiurida,  
Gnathophiurida, Chilophiurida  
Common names: brittle stars, basket stars



Zoological sciences

- 593.95      **Echinozoa**  
Including Echinoidea, Cidaroida, Centrechinoida,  
Exocycloidea, Perischoechinoida, Echinocystoidea,  
Perichoechinoida  
Common names: sea urchins, sand dollars
- .96      **Holothurioidea (Sea cucumbers)**  
Including Dendrochirota [*formerly* †593.97], Apoda  
[*formerly* †593.98], Elasipoda, Aspidochirota,  
Molpadonia
- [†.97]      **Dendrochirota**  
Former heading: Pedata  
Class in 593.96
- [†.98]      **Apoda**  
Class in 593.96
- .99      **Enteropneusta [*formerly* \*596]**  
Including Balanoglossida
- .992      **Linguatula**
- 594      **Mollusca and molluscoidea**  
Mollusks and mollusklike animals
- .1      **Pelecypoda (Bivalve mollusks)**  
Former heading: Lamellibranchia  
Including Prionodesmacea, Anomalodesmacea, Teleodesmacea  
Common names: clams, mussels, oysters, shipworms
- .19      **Crepipoda (Chitons)**  
Polyplacophora (Amphineura) [*formerly* †594.31]  
Including Eoplacophora, Aplacophora, Mesoplacophora,  
Isoplacophora, Teleoplacophora
- .2      **Scaphopoda (Toothshells)**
- .3      **Gastropoda**  
Snails, slugs, whelks
- [†.31]      **Amphineura**  
Class in 594.19
- .32      **Prosobranchia**  
Including Archaeogastropoda, Mesogastropoda,  
Neogastropoda

Decimal Classification

- 594.35 Opisthobranchia  
Including Pteropoda [*formerly* †594.4], Sacoglossa  
Common names: sea slugs, sea lemons, sea hares
- .36 Acoela  
Including Notaspidea, Nudibranchia
- .37 Tectibranchia
- .38 Pulmonata  
Including Basommatophora, Stylommatophora
- [†.4] Pteropoda  
Class in 594.35
- .5 Cephalopoda
- .51 Tetrabranchia
- .52 Nautiloidea (Nautilus)
- .55 Dibranchia  
Including Vampyromorpha
- .56 Octopoda  
Common names: octopuses, cuttlefish, squids, devilfish
- .58 Decapoda
- .6 Molluscoidea
- .7 Bryozoa  
Common names: sea mats, moss animals
- .71 Gymnolaemata  
Including Cyclostomata, Trepostomata, Cryptostomata,  
Ctenostoma
- .72 Phylactolaemata
- .73 Pterobranchia [*formerly* \*596]
- .8 Brachiopoda (Lamp shells)  
Including Inarticulata, Articulata
- [†.9] Tunicata  
Class in 596.2



595

Other invertebrates

Former heading: Articulates

.1

Wormlike animals

Former heading: Vermes

.12

Platyhelminthes (Flatworms)

.121

Cestoidea

Including Cestodaria, Cestoda (tapeworms)

.122

Trematoda (Flukes)

Including Monogenea, Aspidogastrea, Digenea

.123

Turbellaria (Planarians)

Including Acoela, Rhabdocoela, Alloiocoela, Tricladida, Polycladida

.124

Nemertea

Including Anopla, Enopla

.13

Nematoidea (Roundworms)

Including Phasmidia, Aphasmidia

.131

Nematomorpha (Horsehair worms)

Including Gordididea, Nectonematoidea

.133

Acanthocephala

Including Eoacanthocephala, Metacanthocephala

.135

Eucoelomata

Including Chaetognatha, Entoprocta

.14

Annelida (Segmented worms)

*For Myzostoma, see 595.178*

.142

Archiannelida

.15

Hirudinea (Leeches)

Including Rhynchobdellida, Gnathobdellida, Pharyngobdellida

.16

Oligochaeta (Earthworms)

Including Plesiopora, Opisthopora, Prosopora

.17

Polychaeta

Including Errantia, Sedentaria, Aplacophora

.174

Gephyrea

Including Echiuroidea, Sipunculoidea, Priapuloida

.176

Phoronidea

Decimal Classification

- 595.178 Myzostoma  
.18 Aschelminthes  
Including Tardigrada (water bears). [*formerly* †595.412, \*595.4], Rotatoria (wheel animalcules), Gastrotricha, Echinodera  
*For Nematomorpha, see 595.131; Nematoidea, 595.13*
- .2 Arthropoda  
Including Mandibulata  
*For Chelicerata, see 595.39; Progoneata, 595.6; Insecta, 595.7*
- .3 Crustacea  
[†.315] Pycnogonida  
Class in 595.394
- .32 Branchiopoda  
Including Anostraca, Notostraca, Conchostraca, Cladocera
- .33 Ostracoda  
Including Myodocopa, Cladocopa, Podocopa, Platycopa
- .34 Copepoda  
Including Eucopepoda, Branchiura  
Common names: cyclops, fish lice
- .35 Cirripedia (Barnacles)  
Including Thoracica, Ascothoracica, Apoda, Rhizocephala
- .36 Malacostraca  
Including Leptostraca
- .37 Eumalacostraca  
Former heading: Arthrostraca
- .371 Amphipoda  
Including Gammaridea, Hyperiidea, Caprellidea, Ingolfiellidea  
Common names: sand fleas, scuds
- .372 Isopoda  
Including Flabellifera, Valvifera, Asellota, Phreatoicidea, Epicaridea, Oniscoidea  
Common names: sow bugs, wood lice
- .373 Thermosbaenacea
- .374 Tanaidacea
- .381 Cumacea



*Zoological sciences*

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- 595.382 Stomatopoda  
Common names: sea mantles, glass crabs, mantis  
shrimps, squillas, sea onions
- .383 Mysidacea (Opossum shrimps)  
Former heading: Schizopoda
- .384 Decapoda
- .384 1 Macrura (Lobsters, crayfish)
- .384 2 Brachyura (Crabs)
- .384 3 Natantia (Shrimps)
- .384 4 Anomura (Hermit crabs, king crabs)
- .385 Euphausiacea
- .39 Chelicerata  
Former heading: Gigantostraca
- .391 Merostomata
- .392 Xiphosura (Horseshoe crabs)
- .394 Pycnogonida [*formerly* †595.315, \*595.4]  
Including Colossendeomorpha, Nymphonomorpha,  
Ascorhynchomorpha, Pycnogonomorpha  
Common name: sea spiders
- .4 Arachnida  
Class Tardigrada (water bears) [*formerly* †595.412,  
\*595.4] in 595.18; Pycnogonida [*formerly* \*595.4] in  
595.394
- .42 Acari (Mites, ticks)  
Including Notostigmata, Holothyroidea,  
Parasitiformes, Trombidiformes,  
Sarcoptiformes, Tetrapodili
- .43 Phalangida (Harvestmen, daddy longlegs)
- .44 Araneida (True spiders)
- .45 Palpigradi (Whip scorpions)  
Former heading: Pedipalpi
- .46 Scorpiones (Scorpions)
- .47 Pseudoscorpiones (Fake scorpions)
- .48 Solifugae (Weasel spiders)
- .5 Onychophora

*Decimal Classification*

- 595.6 Progoneata  
Former heading: Myriopoda
- .61 Diplopoda (Millipedes)  
Including Pselaphognatha, Chilognatha
- .62 Opisthogoneata  
Including Chilopoda (centipedes)  
*For Insecta, see 595.7*
- .63 Symphyla
- .64 Pauropoda
- .7 Insecta (Insects)
- .71 Synaptera  
Including Collembola (springtails), Protura, Entotrophi,  
Thysanura (bristletails)

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595.72-595.79 Pterygota

- .72 Orthoptera (Grasshoppers, crickets)  
Including locusts, katydids
- .721 Dermaptera (Earwigs)
- .722 Blattariae (Cockroaches)  
Former heading: Cursoria
- .724 Phasmatodea (Walking sticks)
- .725 Mantodea (Mantises)
- .731 Thysanoptera (Thrips)
- .732 Corrodentia (Book lice, bark lice)
- .733 Odonata (Dragonflies, damselflies)
- .734 Ephemeroptera (Mayflies)
- .735 Plecoptera (Stoneflies)  
Former heading: Perlidae
- .736 Isoptera (Termites)
- .737 Embioptera
- .738 Zoraptera



*Zoological sciences*

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- 595.74 Neuroptera (Lacewings)  
Including snake flies, dobson flies  
Class Anoplura in 595.751 2, Mallophaga in 595.751 4 [*both formerly \*595.74*]
- .742 Megaloptera (Ant lions)
- .744 Mecoptera (Scorpion flies)  
Former heading: Panorpidae
- .745 Trichoptera (Caddis flies)
- .746 Strepsiptera
- .75 Hemiptera and related orders (Bugs)
- .751 2 Anoplura (True lice) [*formerly \*595.74*]  
Former heading: Pediculidae  
Siphunculata
- .751 4 Mallophaga (Bird lice) [*formerly \*595.74*]
- .752 Homoptera  
Aphids; cicadas, leaf hoppers, other Homoptera [*all formerly †595.753*]
- [†.753] Cicadas, leaf hoppers, other Homoptera  
Class in 595.752
- .754 Heteroptera (True bugs)
- .76 Coleoptera (Beetles)
- .762 Adephaga  
Including Caraboidea, Gyrinoidea, Cupoidea,  
Rhysodoidea  
Common names: whirligigs, tiger beetles, water beetles
- [†.763] Clavicornia  
Class burying beetles, larder beetles in 595.764
- .764 Polyphaga  
Including Hydrophiloidea, Staphylinoidea, Cucujoidea,  
Cantharoidea, Dryopoidea, Dasyloidea, Histeroidea,  
Tenebrionoidea, Cerambycoidea, Scarabaeoidea  
Common names: burying beetles, larder beetles [*both formerly †595.763*], leaf beetles [*formerly †595.768*],  
dung beetles, June beetles, rose chafers  
*For Adephaga, see 595.762*

*Decimal Classification*

- 595.765 Elateroidea  
Common names: wireworms, click beetles
- [†.766] Ship-timber beetles, powder-post beetles  
Class ship-timber beetles in 595.767; powder-post beetles in 595.769
- .767 Mordelloidea  
Common names: ship-timber beetles [*formerly* †595.766], blister beetles
- .768 Curculionoidea (Weevils)  
Class leaf beetles [*formerly* †595.768] in 595.764
- .769 Colydioidea  
Common names: powder-post beetles [*formerly* †595.766], ladybird beetles
- .77 Diptera (Flies)
- .771 Orthorrhapha  
Former heading: Nematocera  
Including midges, gnats, mosquitoes; crane, moth, horse, bee, robber flies
- .774 Cyclorrhapha  
Former heading: Pupipara  
Including fruit, vinegar, house, blow, tachina, louse flies
- .775 Siphonaptera (Fleas)  
Former heading: Aphaniptera
- .78 Lepidoptera  
Including Jugatae, Frenatae (moths)
- .789 Rhopalocera (Butterflies)
- .79 Hymenoptera
- .796 Formicidae (Ants)
- .798 Vespidae (True wasps)
- .799 Apidae (Bees)

✓596

**Chordata (Vertebrates)**

Including Acrania [*formerly* †597.1], Craniata

Class Enteropneusta in 593.99, Pterobranchia in 594.73 [*both formerly* \*596]



*Zoological sciences*

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- 596.2      **Tunicata [formerly †594.9]**  
            Including Ascidiacea, Larvacea, Thaliacea  
            Common names: sea squirts, sea grapes
- 597      **Anamnia (Cyclostomes, fishes, amphibians)**  
            Former heading: Pisces -
- .09      **Geographic distribution of fish**  
                    *For marine biology, see 574.92*
- .092      **Geographic distribution of salt-water fish**  
                    Divide like 551.46, e.g., fish in the Gulf of Mexico 597.923
- .093-.099      **Geographic distribution of fresh-water fish**  
                    Divide like 930-999, e.g., fish in the Saint Lawrence River  
                    597.971 4
- [†.1]      **Acrania**  
            Class in 596
- .2      **Agnatha**  
            Former heading: Marsipobranchii  
            Including Cyclostomata (lampreys)
- .3      **Chondrichthyes**  
            Including Elasmobranchii
- .31      **Selachii (Sharks)**  
                    Including Heterodontoidea, Notidanoidea, Galeoidea,  
                    Squaloidea
- .35      **Batoidea**  
                    Common names: skates, rays, torpedoes, guitarfishes,  
                    sawfishes
- .38      **Holocephali**  
                    Including Chimaerae  
                    Common names: chimeras, elephant fishes, rat fishes
- 
- 597.4-597.5 Osteichthyes
- .4      **Chondrostei (Ganoids)**  
                    Including Polypterini
- .41      **Holostei**  
                    Including Amioidea  
                    Common names: bowfins, river dogfishes

## Decimal Classification

- 597.44 Acipenseroidei  
Common names: sturgeons, paddlefishes, spoonbills
- .46 Crossopterygii (Lobe-finned fishes)  
Including Coelacanthini
- .47 Lepisosteidae (Gars)  
Former heading: Euganoidea
- .48 Dipnoi (Lung fishes)
- .5 Teleostei  
Arrange alphabetically by orders, using A1 for comprehensive works, e.g., Acanthopterygii 597.5 A3
- ✓.6 Amphibia
- .7 Apoda (Caecilians)  
Former heading: Ophiomorpha
- ✓.8 Salientia  
Including Anura (frogs, toads)
- .9 Urodela  
Including Cryptobranchoidea, Amblystomoidea, Salamandioidea, Proteoidea  
Common names: salamanders, newts, mud puppies

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### 598-599 Amniota

- 598 Reptiles and birds
- .1 Reptilia (Reptiles)  
Including comprehensive works on herpetology  
*For Amphibia, see 597.6-597.9*

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### 598.11-598.12 Squamata

- .11 Lacertilia (Lizards)
- .12 Serpentes (Snakes)
- .13 Chelonia (Turtles, tortoises)  
Including Pleurodira, Cryptodira
- .139 Rhynchocephalia (Tuataras)
- .14 Crocodilia (Crocodiles, alligators)



## Zoological sciences

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- 598.2 Aves (Birds)  
Divide like 591.1–591.8, e.g., bird migrations 598.252  
Class specific groups of birds [*formerly* \*598.2] in 598.3–598.99
- .201 3 Bird protection  
Comprehensive works  
*For protection of a specific species of birds, see the group, e.g., whooping cranes 598.3*
- .201 8 Collection and preservation of birds
- .207 2 Ornithological research  
Including birdbanding, census taking
- .207 4 Aviaries
- .29 Geographic distribution of birds
- .291 Zonal and physiographic distribution of birds  
Divide like 574.909, e.g., birds in tropical regions 598.291 3
- .293–.299 Distribution of birds by country  
Divide like 930–999, e.g., birds in United States 598.297 3
- 

- 598.3–598.99 Specific groups of birds [*formerly* \*598.2]
- .3 Gruiformes  
Former heading: Grallatores  
Including Mesoenatides, Turnices, Grues, Heliornithes, Rhynocheti, Eurypygae, Cariamae, Otides  
Common names: cranes, limpkins, rails, gallinules, coots
- .33 Charadriiformes  
Former heading: Limicolae  
Including Charadrii, Lari, Alcae  
Common names: gulls, skimmers, terns [*all formerly* †598.42]; puffins, auks, murres [*all formerly* †598.44]; jacanas, oyster catchers, plovers, turnstones, woodcock, snipe, sandpipers, curlews, avocets, stilts, phalaropes
- .34 Ciconiiformes  
Former heading: Herodiones  
Including Ardeae, Balaenicipites, Ciconiae, Phoenicopteri  
Common names: herons, bitterns, egrets, storks, ibises, spoonbills, flamingos

## Decimal Classification

- 598.4      Anseriformes  
            Including Anhimae, Anseres  
            Common names: swans, geese, ducks, mergansers, screamers
- .42        Procellariiformes  
            Former heading: Longipennes  
            Common names: albatrosses, shearwaters, fulmars, petrels  
            Class gulls, skimmers, terns [*all formerly* †598.42] in 598.33
- .43        Pelecaniformes  
            Former heading: Steganopodes  
            Including Phaethontes, Pelecani, Fregatae, Odontopteryges  
            Common names: tropic birds, pelicans, gannets, boobies,  
            cormorants, darters, snakebirds, man-of-war birds
- .44        Sphenisciformes (Penguins)  
            Former heading: Pygopodes  
            Class auks, puffins, murres [*all formerly* †598.44] in 598.33
- .442      Gaviiformes (Loons)
- .443      Colymbiformes (Grebes)
- .5        Palaeognathae  
            Former heading: Cursores
- .51      Struthioniformes (Ostriches)
- .52      Rheiformes (Rheas)
- .53      Casuariiformes (Cassowaries, emus)
- .54      Apterygiformes (Kiwis)
- .55      Tinamiformes (Tinamous)
- .6        Galliformes  
            Former heading: Rasores  
            Including Gall, Opisthocomi  
            Common names: curassaws, guans, grouse, quails, pheasants,  
            turkeys, domestic chickens  
            *For sand grouse, see 598.65*
- .65      Columbiformes  
            Including Pterocletes, Columbae  
            Common names: sand grouse, pigeons, doves  
            *For grouse, see 598.6*



*Zoological sciences*

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598.7

Psittaciformes

Former heading: Scansores

Common names: parrots, parakeets, macaws, lorries

.72

Piciformes

Including Galbulae, Pici

Common names: jacamars, puffbirds, barbets, honey guides, toucans, woodpeckers, flickers, piculets

.73

Trogoniformes (Trogons)

.74

Cuculiformes

Including Musophagi, Cuculi

Common names: plantain eaters, cuckoos, roadrunners, anis

.8

Passeriformes (Passerine, perching birds)

Arrange alphabetically by families, using A1 for comprehensive works, e.g., robins (belonging to Turdidae family)  
598.8 T8

.89

Coraciiformes

Former heading: Picariae

Including Alcedines, Meropes, Coracii, Bucerotes

Common names: kingfishers, rollers, todies, motmots, bee eaters, hoopoes, hornbills

.899

Apodiformes

Including Apodi, Trochili

Common names: swifts, hummingbirds

.9

Falconiformes (Birds of prey)

Former heading: Raptores

Including Cathartae, Falcones

Common names: hawks, falcons, buzzards, vultures, ospreys, eagles

.97

Strigiformes (Owls)

.99

Caprimulgiformes

Including Steatornithes, Caprimulgi

Common names: oilbirds, frogmouths, potoos, goatsuckers

Decimal Classification

- 599 Mammalia (Mammals)
- .1 Prototheria  
Including Monotremata  
Common names: spiny anteaters [*formerly* \*599.3], platypuses  
*For anteaters, see 599.31*
- .2 Metatheria  
Including Marsupialia (pouch mammals)  
Common names: opossums, opossum rats, kangaroos, marsupial mice, wallabies, bandicoots, phalangers, koalas, wombats
- .3 Eutheria (Placentals)  
Class spiny anteaters [*formerly* \*599.3] in 599.1
- .31 Edentata  
Including Xenarthra, Pholidota  
Common names: armadillos, anteaters, sloths, pangolins (scaly anteaters)  
*For spiny anteaters, see 599.1*
- .32 Glires
- .322 Lagomorpha  
Common names: pikas, hares, rabbits
- .323 Rodentia (Rodents)
- .323 2 Sciuromorpha  
Common names: sewellels, squirrels, beavers
- .323 3 Myomorpha  
Common names: rats, mice
- .323 4 Hystricomorpha  
Common names: porcupines, guinea pigs, cavies, agoutis, chinchillas
- .33 Insectivora  
Common names: solenodons, moles, shrews, desmans, tenrees
- .34 Dermoptera (Flying lemurs)
- .4 Chiroptera (Bats)  
Including Megachiroptera, Microchiroptera



Zoological sciences

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- 599.5 Cetacea (Whales)
- .51 Mysticeti  
Common names: baleen whales, whalebone whales,  
finbacks, humpback whales
- .53 Odontoceti (Toothed whales)  
Common names: sperm whales, beaked whales, cowfish,  
narwhals, white whales, dolphins, porpoises
- .55 Sirenia (Sea cows)  
Including Trichechiformes  
Common names: manatees, dugongs
- .6 Paenungulata  
Former heading: Subungulata  
*For Sirenia, see 599.55*
- .61 Proboscidea  
Including Elephantidae (elephants)
- .62 Hyracoidea  
Common names: conies, dassies, rock hyraxes, tree  
hyraxes
- .7 Mesaxonia and Paraxonia (Hoofed mammals)  
Former heading: Ungulata
- .72 Perissodactyla (Odd-toed hoofed mammals)
- .725 Equidae (Horses, asses, zebras)
- .727 Tapiridae (Tapirs)
- .728 Rhinocerotidae (Rhinoceroses)
- .73 Artiodactyla (Even-toed hoofed mammals)
- .734 Suiformes  
Common names: pigs, boars, wart hogs, babirussas,  
peccaries, hippopotamuses
- .735 Ruminantia (Ruminants)  
Including Tragulidae, Pecora, Cervidae, Bovoidea  
Common names: chevrotains, mouse deer, giraffes,  
okapis, deer, moose, reindeer, caribou, elk, antelopes,  
cattle, oxen, buffaloes, bison, elands, bongos, kudus,  
gazelles, sheep, goats, musk oxen
- [+.735 4] Tylopoda  
Class in 599.736

*Decimal Classification*

- 599.736 Tylopoda [*formerly* \*599.735 4]  
Common names: camels, dromedaries, llamas, alpacas, vicuñas, guanacos
- .74 Carnivora
- .744 Fissipeda (Land carnivores)
- .744 2 Feloidea  
Former heading: Aeleuroidea, Herpestoidea  
Including Viverridae, Proteles, Hyaenidae, Felidae  
Common names: civets, mongooses, fossa, aardwolves, hyenas, cats
- .744 4 Canoidea  
Former heading: Arctoidea  
Including Canidae, Procyonidae, Ursidae, Mustelidae  
Common names: wolves, jackals, foxes, dogs, coyotes, raccoons, coatis, kinkajous, pandas, bears, weasels, minks, grisons, wolverines, badgers, skunks, otters
- .745 Pinnipedia (Marine carnivores)  
Class Otariidae in 599.746, Odobenidae in 599.747, Phocidae in 599.748 [*all formerly* \*599.745]
- .746 Otariidae [*formerly* \*599.745]  
Eared seals  
Including fur seals, sea lions, sea bears
- .747 Odobenidae [*formerly* \*599.745]  
Walruses
- .748 Phocidae [*formerly* \*599.745]  
True seals  
Including earless seals, elephant seals
- .8 Primates  
Class man [*formerly* \*599.8] in 599.9
- .81 Prosimii  
Including Lemuriformes, Lorisiformes, Tarsiiformes



*Zoological sciences*

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599.82

Anthropoidea

Including Cebidae, Callithricidae, Cercopithecidae

Common names: monkeys, marmosets, tamarins

Class gorillas, chimpanzees, orangutans, baboons [*all formerly* †599,82] in 599.884

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599.88–599.9 Hominoidea

.88

Pongidae (Apes)

Former heading: Anthropomorpha

.882

Hylobatinae

Common names: gibbons, siamangs

.884

Ponginae

Common names: gorillas, chimpanzees, orangutans, baboons [*all formerly* †599.82]

.9

Hominidae (Man) [*formerly* \*599.8]

*For anthropology, see 572–573*

# Technology (Applied science)

## 600 Technology (Applied science)

*For pure science, see 500; prehistoric industries, 571.6*

### .74 Technical museums

*Including permanent exhibits*

*For fairs, expositions, temporary exhibits, see 606.4*

### .78 Technical apparatus and instrumentation

## 601 Philosophy and theory

## 602 Handbooks and outlines

## 603 Dictionaries and encyclopedias

## 604 Essays and lectures

## 605 Periodicals

## 606 Organizations and societies

### .4 Fairs and expositions

*Including temporary exhibits, competitions*

*For permanent exhibits, see 600.74*

## 607 Technical education and research

### .2 Industrial research

*Including products research, technical laboratories*

*Divide like 940-999, e.g., industrial research in United States 607.273*

### .4-9 Technical education in specific countries

*Divide like 940-999, e.g., technical education in Germany 607.43*

## 608 Collections

### .7 Patents and inventions

*Divide like 940-999, e.g., United States patents 608.773*

## 609 History and local treatment

*Divide like 930-999, e.g., history of technology in Germany 609.43*



Medical sciences

610 Medical sciences

*For forensic medicine, see 340.6; medical welfare work, 362.1*

.69 Medical professions

*For nursing profession, see 610.73; medical records librarians, 362.1; medical missionaries, 266.025; medical secretaries, 651.024*

.694 Medical ethics

.694 2 Codes of medical ethics

*Including Hippocratic oath*

.694 4 Euthanasia

.694 8 Other related codes

*Including codes on medical advertising, fee splitting*

*For medical economics, see 614.25*

.695 Professional personnel

*For nurses, aides, attendants, see 610.73*

.695 2 Physicians and surgeons

*Including women as physicians and surgeons*

*For licensure and registration, see 614.24; personnel in a specialized medical practice, the specialty, e.g., dentists 617.606 9*

.695 3 Medical technicians

*For dental technicians, see 617.606 95*

.696 Physician-patient relationships

.7 Study and teaching of medicine

✓ [+\*.72] Experimental medicine, *Medical Research*

Class in 619

*Decimal Classification*

- 610.73      Nursing profession  
              Including professional and practical nurses, aides, attendants  
              Divide by form divisions 01-09, e.g., history of nursing  
              610.730 9  
              *For home nursing, see 649.8; Army Nurse Corps, 355.345;  
              Navy Nurse Corps, 359.34*
- .732      Private duty nursing
- .733      Institutional nursing  
              Including ward management
- ✓.734      Public health and community nursing  
              Including occupational health nursing (industrial nursing),  
              visiting nurses  
              If preferred, class in 614.073
- .736      Specialized nursing  
              If preferred, class with the specialty, e.g., pediatric nursing  
              618.920 73
- .736 2      Pediatric nursing
- .736 5      Geriatric nursing
- .736 7      Surgical and gynecological nursing
- .736 78     Obstetrical nursing
- .736 8      Psychiatric nursing
- .736 9      Communicable disease nursing
- .74      Medical museums and exhibits
- ✓.76      Examinations for physicians and surgeons  
              Including state board examinations
- ✓.78      Medical appliances  
              Including instruments, apparatus, equipment  
              *For special medical appliances, see the specialty, e.g.,  
              orthopedic appliances 617.307 8*
- .8      Collections on medicine
- ✓.9      History of medicine  
              Divide like 930-999, e.g., history of medicine in Sweden 610.948 5



Medical sciences

611 Human anatomy

For human physiology, see 612; comparative anatomy, 591.4; anatomy for artists, 743.4

SUMMARY

- 611.01 Theoretic considerations
  - .1 Cardiovascular organs
  - .2 Respiratory organs
  - .3 Alimentary tract (Digestive organs)
  - .4 Lymphatic and glandular organs
  - .6 Urogenital organs
  - .7 Motor and integumentary organs
  - .8 Neuroanatomy
  - .9 Regional anatomy

.01 Theoretic considerations

Including value, definitions, classification, terminology

.012 Human teratology

Congenital anomalies [formerly also †617.31], deformities [formerly also †613.91], monstrosities [formerly †573.9]

Including coalescence of parts, extension of commissures, Siamese twins [all formerly †617.33-†617.35]

For pathology, see 616.07; correction of deformities of skeletal system, 617.3, treatment of anomalies of a specific organ, the organ, e.g., heart anomalies 616.12

.013 Anatomy of human embryo

Class human embryology [formerly †\*611.013] in 612.64

[†.014] Anthropological anatomy

Class in 573

[†.016] Paleontological anatomy

Class in 560

.018 Human cytology and histology

Study of microscopic structure of human cells and tissues

.018 1 Human cytology [formerly also †612.014 1-†612.014 3]

Study of human cells and their components, e.g., protoplasm [formerly also †612.71]

Decimal Classification

- 611.43 Thymus gland
- ✓.44 Thyroid and parathyroid glands
- .45 Adrenal glands
- ✓.46 Lymphatic glands  
*For lymphatic ducts, see 611.42*
- ✓.49 Breasts [*formerly* †611.69]  
Including mammary glands
- ✓.6 Urogenital organs
- ✓.61 Kidneys  
Including ureter
- ✓.62 Bladder  
Including urethra  
*For female urethra, see 611.67*
- ✓.63 Male genital organs  
Including testicles, vas deferens, seminal vesicles, prostate, scrotum, spermatic cord
- .64 Penis
- .65 Female genital organs  
Including ovaries, Graafian follicles, corpus luteum, Fallopian tubes
- ✓.66 Uterus  
Including cervix
- .67 Vagina  
Including hymen, vulva, female urethra, clitoris, vulvo-vaginal glands
- [†.69] Breasts  
Class in 611.49
- .7 Motor and integumentary organs
- ✓.71 Osteology
- .711 Vertebral column



Medical sciences

- 611.2 **Respiratory organs**
- ✓21 Nose and nasal accessory sinuses
  - ✓22 Larynx
    - Including laryngeal cartilages, glottis, muscles of larynx
  - ✓.23 Trachea and bronchi
  - ✓.24 Lungs
  - .25 Pleura
  - .26 Diaphragm
  - .27 Mediastinum
- ✓.3 **Alimentary tract (Digestive organs)**
- ✓31 Mouth
    - Including tongue, palates, salivary glands, lips, cheeks
  - .314 Teeth (Dental anatomy)
  - ✓.32 Pharynx and esophagus
    - Including tonsils
  - .33 Stomach
    - Including pylorus
  - ✓.34 Intestines
    - Including small intestines, duodenum, jejunum, ileum, cecum, vermiform appendix, large intestines, colon, sigmoid flexure
  - ✓.35 Rectum and anus
    - Including rectal valves, perineum
  - ✓36 Liver and biliary tract
    - Including gall bladder
  - 37 Pancreas
    - Including islands of Langerhans
  - .38 Peritoneum
    - Including mesentery, omentum, coelum
- ✓.4 **Lymphatic and glandular organs**
- .41 Spleen
  - .42 Lymphatic ducts
    - Including comprehensive works on lymphatic system
    - For lymphatic glands, see 611.46*

Medical sciences

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- 611.712 Thoracic bones  
Including ribs  
*For scapula, clavicle, see 611.717*
- .713 Sternum
- .714 Skull
- .715 Cranium
- .716 Bones of face
- ✓ .717 Bones of the upper extremity  
Including scapula, clavicle, humerus, radius, ulna, phalanges  
of the hands, carpal, metacarpal bones
- .718 Bones of the lower extremity  
Including femur, patella, tibia, fibula, phalanges of the feet,  
tarsal, metatarsal bones
- .718 1 Hipbone (Innominate bone)
- .72 Articulations  
Including ligaments, joints  
*For connective tissue, see 611.74*
- .73 Myology  
Anatomy of muscles
- .731 Dorsal muscles
- .732 Muscles of the head
- .733 Muscles of the neck
- .734 Hyoid muscles
- .735 Thoracic muscles
- .736 Abdominal and coccygeal muscles
- .737 Muscles of the upper extremity  
Including muscles of the shoulders, arms, forearms, hands
- .738 Muscles of the lower extremity  
Including muscles of the hips, buttocks, thighs, legs, feet
- .74 Connective tissue [*formerly* †611.76]  
Including tendons, fasciae



Decimal Classification

- 611.75      Bursae  
            Including sheaths of tendons
- [†.76]      Connective tissue  
            Class in 611.74
- ✓ .77      Integument  
            Including skin, glands of the skin, skin pigmentation  
            For bursae, see 611.75
- ✓ .78      Hair and nails
- ✓ .8      Neuroanatomy [formerly also †131.1]
- ✓ .81      Brain
- ✓ .82      Spinal cord
- .83      Peripheral nerves  
            Including ganglions [formerly †611.89]; cranial, spinal, cervical,  
            thoracic, lumbar, sacral, and coccygeal nerves
- .839      Autonomic nerves  
            Including sympathetic and parasympathetic systems
- 
- 611.84–611.88 Anatomy of sense organs
- .84      Eye
- ✓ .85      Ear
- .86      Olfactory organs
- .87      Gustatory organs
- .88      Tactile organs [formerly also †152.51]  
            Including comprehensive works on proprioceptive organs  
            [formerly also †152.61], sense organs  
            For anatomy of the eye, see 611.84; of the ear, 611.85; of  
            olfactory organs, 611.86; of gustatory organs, 611.87
- [†.89]      Ganglions  
            Class in 611.83
- .9      Regional anatomy ← use 617  
            Including surgical and topographical anatomy
- .91      Head
- .92      Face
- .93      Neck

Medical sciences

- 611.94 Thorax, *chest*
- .95 Abdomen
- ✓.96 Pelvic and perineal region  
*For anatomy of hipbone, see 611.718 1*
- 0
- .97 Upper extremities
- .98 Lower extremities

✓612 Human physiology

Functions of human body and its organs

*For animal physiology, comparative physiology, see 591.1; plant physiology, 581.1; physiological psychology, 131; pathological physiology, 616.07*

SUMMARY

- 612.01 Theoretic considerations
  - .1 Circulatory systems
  - .2 Respiratory system
  - .3 Nutrition
  - .4 Lymphatic and glandular systems
  - .5 Body temperature
  - .6 Reproductive system and developmental periods
  - .7 Motor and integumentary systems
  - .8 Nervous system
- .01 Theoretic considerations  
Including value, definitions, classification, terminology
- [†.014] General physiology  
Class in 574.1
- [†.014 1-†.014 3] Cytology  
Class cytology in 574.87; human cytology in 611.018 1
- .014 4 Physiological effects of physical agents [*formerly*  
✓\*612.017] ← *use this No.*  
*For physics of bodily functions, see 612.017; physiological effects of heat and cold, 612.59*
- .014 41 Physiological effects of barometric pressure [*formerly*  
*also* †612.27]  
Including physiological aspects of caisson disease, altitude sickness



## Decimal Classification

- 612.014 42  
Electrophysiology  
*For electrotherapy, see 615.845; electrophysiology of nerves, 612.813*
- [†.014 43]  
Physiological effects of heat and cold  
Class in 612.59
- .014 44  
Physiological effects of light  
*For phototherapy, see 615.831*
- .014 45  
Physiological effects of sound vibration
- [†.014 47]  
Geotropism and thigmotaxis  
Class in 581.183 2
- ✓.014 48  
Physiological effects of penetrating radiation  
Including effects of X rays, cosmic rays, gamma rays  
*For radiotherapy, see 615.84*
- ✓.015  
Human biochemistry  
Comprehensive works on composition of and chemical transformations occurring within human body  
Divide by form divisions 01-09, e.g., experimental biochemistry 612.015 072  
*For biochemistry of a specific part of human body, see physiology of the part, e.g., chemical composition of blood 612.11; biological products, 615.328-615.39; their chemistry, 547.73-547.76; pharmacodynamics, 615.7; metabolism, 612.39; animal biochemistry, 591.192; plant biochemistry, 581.192*
- ✓.015 1  
Enzymes (Ferments) in human body  
Comprehensive works  
*For action of enzymes in a specific part of human body, see physiology of the part, e.g., pepsin in the stomach 612.32*
- .015 2  
Chemical composition of human body
- [†.015 3]  
Metabolism  
Class metabolism in 612.39; effect of temperature on metabolism in 612.59
- .015 4  
Pigments and pigmentation  
Including melanin, bilirubin, porphyrin, carotenoids and similar substances in human body



*Medical sciences*

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✓ 612.017 Human biophysics

Comprehensive works on physics of bodily functions and physiological effects of physical agents

Class physiological effects of physical agents [formerly \*612.017] in 612.014 4

*For biophysics of a specific part of human body, see physiology of the part, e.g., principles of circulation 612.13; physical medicine, 615.8; physiological effects of heat and cold, 612.59*

.018 Tissue and organ culture

*For study of microscopic structure of tissues and cells, see 611.018*

.07 Study and teaching of human physiology

.072 Experimental physiology

Including vivisection

*For anatomy and vivisection laws, see 614.22*

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612.1-612.89 Physiology of specific systems and organs

Class pathology of specific systems and organs [formerly subdivisions of †612.1-†612.89] in 616-618

✓ 1 Circulatory systems

Functions of cardiovascular and hemic systems

*For lymphatic system, see 612.42, circulation in a specific part of human body, the physiology of the part, e.g., pulmonary circulation 612.215*

✓ .11 Blood

*For spleen, see 612.41; bone marrow, 612.491; microscopic study of blood elements, 611.018 5, blood analysis in diagnosis, 616.075 61*

.111 Red corpuscles

Biochemistry, biophysics of red corpuscles (erythrocytes)  
Including counting red corpuscles

✓ .112 White corpuscles

Biochemistry, biophysics of white corpuscles (leucocytes)  
Including comprehensive works on counting techniques

*For counting red corpuscles, see 612.111*



*Decimal Classification*

- 612.115 Coagulation of blood  
Including composition and properties of coagulation products, e.g., blood plasma, platelets, fibrin, fibrinoplastin, thrombin
- .118 Properties of whole blood ; 15
- .118 1 Physical properties  
Including osmotic pressure, viscosity, cryoscopic methods of studying blood
- ✓.118 2 Biological properties  
Including physiological aspects of immunity, antibodies
- .12 Chemical properties  
Including chemical components of blood, e.g., carbohydrates, lipoids, cholesterol, mineral salts, enzymes
- ✓.13 Principles of blood circulation  
Including arterial, venous, and capillary circulation; rapidity of circulation [formerly †612.15]
- ✓.14 Blood pressure  
Including systolic and diastolic pressure; pulse [formerly †612.16] and pulse rate, sphygmomanometry  
*For pulse and blood pressure in diagnosis, see 616.075*
- [†.15] Rapidity of circulation  
Class in 612.13
- [†.16] Pulse  
Class in 612.14
- .17 Heart  
Including cardiac muscles
- .171 Cardiac contractions  
Including rhythmic contraction (systole) and dilation (diastole) of heart cavities, action of cardiac valves, methods of graphically recording cardiac movements  
*For blood pressure, see 612.14; electrocardiography in diagnosing heart disease, 616.120 75*
- .173 Cardiac metabolism
- [†.174] Drugs affecting cardiovascular system  
Class in 615.71

*Medical sciences*

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- 612.178      **Innervation of heart**  
                Nerve distribution and stimulation of heart  
                *For vasomotors, see 612.18*
- [†.179]      **Prenatal circulation**  
                Class in 612.64
- .18          **Vasomotors**  
                Nerves causing dilation and constriction of blood vessels  
                Including vasoconstrictors, vasodilators  
                *For innervation of heart, see 612.178*
- ✓.2         **Respiratory system**
- .21          **Respiratory biophysics**  
                Including respiratory movements, rhythm, sounds and similar  
                phenomena
- ✓.215      **Physiology of specific respiratory organs**  
                Physiology of nose and pharynx, bronchi, trachea, pleura, lungs,  
                pulmonary muscles  
                Including pulmonary circulation
- .22          **Respiratory biochemistry**  
                Including gaseous exchange in the blood [*formerly †612.23*]  
                *For tissue respiration, see 612.26*
- .23          **Physiology of asphyxiation**  
                Class gaseous exchange in the blood [*formerly †612.23*] in  
                612.22  
                *For treatment of asphyxiation, see 617.18*
- .26          **Tissue respiration**  
                Including catabolic processes
- [†.27]      **Physiological effects of barometric pressure**  
                Class in 612.014 41
- .28          **Innervation of respiratory system**  
                Nerve distribution and stimulation of respiratory apparatus



Decimal Classification

612.3

Nutrition

Sum total of processes of ingestion, digestion, assimilation of food to build and maintain tissue, and to release energy

*For food values, see 641.1; food in relation to health, 613.2; dietotherapy, 615.854; chemical analysis of food and drink, 543.1; food inspection, 614.31*

612.31-612.36 Physiology of digestive system

Biophysics, biochemistry, innervation of digestive tract

✓.31

Oral physiology

Including physiology of mouth, tonsils, tongue, esophagus

.311

Dental physiology

Including mastication

*For dentistry, see 617.6*

.313

Salivary digestion

[†.314]

Venoms

Class in 615.942

.32

Gastric digestion

Physiology of stomach

.33

Intestinal digestion

Including physiology of small intestines, intestinal secretions

*For digestion in large intestines, see 612.36; absorption, 612.38*

✓.34

Pancreatic digestion

Physiology of pancreas and pancreatic secretions

.35

Biliary digestion

Physiology of liver, gall bladder, bile ducts, biliary secretions

.36

Physiology of large intestines

Including physiology of vermiform appendix, digestion in large intestines, defecation

.38

Absorption

Transfer of digested food from alimentary canal into blood stream

Medical sciences

- 612.39 Metabolism [*formerly also* †612.015 3]  
Assimilation of digested food into tissue (anabolism) and  
conversion into energy (catabolism)  
*For energy metabolism, see 612.57; catabolic processes,*  
*612.26*
- .391 Physiology of hunger and thirst  
*For sensation and perception of hunger and thirst, see 152.6*
- .392 Mineral metabolism
- [†.392 1] Carbonaceous foods  
Class in 612.396
- [†.392 2] Nitrogenous foods  
Class in 612.398
- ✓.392 3 Water metabolism, *Body fluids*
- .392 4 Metabolism of sulfur, phosphorus, iron  
Including metabolism of trace elements
- .392 6 Metabolism of other minerals  
Including metabolism of sodium, potassium, calcium salts
- [†.394] Food requirements for children  
Class in 649.3
- [†.395] Food requirements for adults  
Class in 641.1
- .396 Carbohydrate metabolism  
Metabolism of carbonaceous foods [*formerly also* †612.392 1]
- .397 Fat and lipid metabolism
- ✓.398 Protein metabolism  
Metabolism of nitrogenous foods [*formerly also* †612.392 2]
- .399 Vitamins in the body  
*For pharmacology of vitamins, see 615.328; chemistry of*  
*vitamins in vitro, 547.74, vitamin therapy, 615.854*



Decimal Classification

- ✓ 612.4 Lymphatic and glandular systems *Prostaglandin*  
Biochemistry, biophysics, innervation of lymphatic, endocrine, and exocrine systems  
Use 612.400 1-612.400 9 for form divisions  
*For glands of a specific system, see the system, e.g., mammary glands 612.664*
- ✓ .405 Hormones in the body  
*For endocrinotherapy, see 615.36; chemistry of hormones in vitro, 547.73*
- .41 Spleen  
*For red corpuscles, see 612.111; bone marrow, 612.491*
- ✓ .42 Lymphatic system  
Including physiology of lymph, lymph glands
- .43 Thymus gland
- ✓ .44 Thyroid and parathyroid glands
- .45 Adrenal glands
- .46 Urinary system
- .461 Chemical properties of urine  
Including chemical composition, reactivity, analysis  
*For urinalysis in diagnosis, see 616.075 6*
- ✓ .463 Physiology of kidneys  
Including formation and secretion of urine, renal circulation  
*For micturition, see 612.467*
- .467 Physiology of bladder, ureters, urethra  
Including micturition
- .467 3 Innervation of urinary system
- .49 Other endocrine glands
- .491 Bone marrow  
*For spleen, see 612.41; red corpuscles, 612.111*
- ✓ .492 Pituitary and pineal glands

Medical sciences

- 612.5 **Body temperature**  
Including heat production, radiation, regulation in the body
- .55 **Disturbances in heat regulation**  
Including physiological aspects of fevers  
*For treatment of fevers, see 616.9*
- .57 **Energy metabolism**  
Including measurement of basal metabolism rate  
*For diagnosis, see 616.075*
- [†.58] **Hibernating animals**  
Class in 591.543
- .59 **Physiological effects of heat and cold [formerly also †612.014 43]**  
Including physiological effects of temperature on metabolism  
[formerly also †612.015 35]
- .591 **Physiological effects of high temperatures**  
*For thermotherapy, see 615.832, tropical hygiene, 613.113*
- .592 **Physiological effects of low temperatures**  
*For cryotherapy, see 615.832 9; arctic hygiene, 613.111*
- ✓.6 **Reproductive system and developmental periods**  
Biochemistry, biophysics, innervation of reproductive system and developmental periods  
Use 612.600 1-612.600 9 for form divisions
- .61 **Male reproductive system**
- .62 **Female reproductive system**
- .63 **Pregnancy [formerly also †618.21, \*618]**  
Including conception; parturition [formerly also †618.4]  
Class birth control [formerly \*612.63] in 613.943  
*For management of pregnancy, see 618 24, embryology, 612.64*
- .64 **Human embryology [formerly also †\*611.013]**  
Prenatal development  
Including prenatal circulation [formerly †612 179]
- ✓.646 **Development of embryo**  
Intra-uterine development from conception thru three months



Decimal Classification

- ✓ 612.647 Development of fetus *(fetus)*  
Intra-uterine development from end of embryonic period to birth
- ✓ .648 Development of newborn (neonate)  
First month of postfetal development
- ✓ .65 Child development [*formerly also †136.71, \*136.7*]  
Development from infancy to puberty  
*For child psychology, see 136.7; child care and management, 649.1; pediatrics, 618.92*
- .66 Adult development
- .661 Adolescent development  
Including puberty
- .662 Menstruation
- .663 Period of mature development  
Including period of fertility
- ✓ .664 Lactation  
Including physiology of mammary glands
- J .665 Climacteric development  
Male and female climacteric changes  
Including menopause
- ✓ .67 Physical gerontology [*formerly \*618.97*]  
Physiology of aging  
*For social gerontology, see 301.435; geriatrics, 618.97*
- .68 Longevity factors
- .7 Motor and integumentary systems  
Biochemistry, biophysics, innervation of motor and integumentary systems; physiology of movement [*formerly also †158.2*]  
*For muscle reactivity to electrical stimulation, see 612.813*
- [†.71] • Protoplasm  
Class in 611.018 1
- [†.72-†.73] Vibratile cilia, smooth muscles  
Class in 612.74

Medical sciences

- ✓612.74 Muscle physiology  
Smooth [formerly also †612.73] and striated muscles  
Including cilia [formerly †612.72]  
*For cardiac muscles, see 612.17*
- .741 Muscular contractions [formerly also †612.745]  
Including muscular elasticity, tonus, irritability
- .743 Innervation of muscles
- .744 Chemistry of muscles  
Including muscular metabolism, chemical composition of muscles
- [†.745] Muscular contractions  
Class in 612.741
- ✓.75 Physiology of bones, joints, connective tissues
- .76 Human locomotion  
Including physiology of exercise and rest  
*For rest and exercise in relation to health, see 613.7*
- ✓.78 Voice and speech  
Including physiology of larynx [formerly also †534.7], glottis, epiglottis
- .79 Physiology of skin
- ✓.792 Secretion of skin glands  
Including perspiration
- .798 Innervation of skin
- .799 Physiology of nails and hair
- ✓.8 Nervous system [formerly also †131.2]  
Biochemistry and biophysics of nervous system  
Including innervation principles  
Class sensation [formerly \*612.8] in 152 and its subdivisions  
*For physiological psychology, see 131*
- ✓.81 Peripheral nervous system  
Including comprehensive works on physiology of nerve fibers  
*For a specific peripheral nerve, see the part innervated, e.g., auditory nerve 612.85*
- .811 Types of peripheral nerves
- .811 5 Motor nerves



## Decimal Classification

- 612.811 6      Sensory nerves
- /.813      Electrophysiology of nerves [*formerly also* †612.816 1]  
                Including muscle reactivity
- .816      Reactivity of nerves to stimulation  
                *For electrophysiology of nerves, see* 612.813
- [†.816 1]      Action of electricity  
                    Class in 612.813
- .819      Cranial nerves
- .819 9      Spinal nerves  
                Including comprehensive works on cervical, thoracic,  
                lumbar, and sacral nerves
- ✓.82      Central nervous system  
                *For peripheral nervous system, see* 612.81; *spinal cord, 612.83*
- .821      Brain  
                *For physiological psychology, see* 131; *a specific part of*  
                *brain, the part, e.g., cerebellum* 612.827
- [†.821 1]      Reaction time studies  
                    Class in 152.83
- [†.821 2]      Attention, memory, association, imagination  
                    Class attention in 152.723; memory in 154; association in  
                    153.2; imagination in 155
- [†.821 3]      Instincts, intelligence, emotions, sensibility  
                    Class instincts in 158.424; intelligence in 151; emotions  
                    in 157; sensibility in 157.5
- [†.821 31]      Comparative psychology  
                    Class in 151.3
- [†.821 34]      Will, habits, drives  
                    Class will in 159.2; habits in 158.43; drives in 159.4
- [†.821 4]      Action of poisons  
                    Class in 613.8
- [†.821 5]      Effect of disease on intelligence  
                    Class in 151.29
- [†.821 6]      Psychic reflexes  
                    Class in 158.423

Medical sciences

- ✓ 612.821 7 Sleep and dreams
  - Physiological aspects only
  - Including cerebral circulation, chemical changes during sleep phenomena
  - For psychological aspects of sleep and dreams, see 135*
- [†.821 71] Hypnotism
  - Class in 134
- [†.821 8] Sensation and perception
  - Class in 152
- [†.821 88] Psychophysics
  - Class in 152.8
- [†.821 89] Sensory illusions
  - Class in 152.73
- .822 Biochemistry and biophysics of nerve tissue
- .824 Cerebral circulation
- .825 Cerebrum
  - Including cerebral hemispheres, convolutions, cortex
  - For cerebral circulation, see 612.824; cerebral commissures and peduncles, 612.826*
- .825 2 Cerebral localization of motor functions
- .825 5 Cerebral localization of sensory functions
- .826 Brain stem
  - Including thalamus, cerebral commissures, geniculate bodies, corpora quadrigemina, cerebral peduncles, pons Variolii
  - For medulla oblongata, see 612.828*
- .827 Cerebellum
- .828 Medulla oblongata
- .83 Spinal cord
  - For spinal nerves, see 612.819 9*

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612.84–612.88 Physiology of sense organs

Biochemistry, biophysics, innervation of sense organs

.84 Physiological optics [*formerly also †535.7, \*535.6*]

*For psychological optics, see 152.1*



Decimal Classification

- 612.841 Fibrous tunics of eye [*formerly also* †152.11]  
Including physiology of cornea, conjunctiva, anterior chamber, sclera
- .842 Uvea [*formerly also* †152.12]  
Pigmentary layer of eye  
Including physiology of iris, choroid, ciliary body
- .843 Optic nerve and retina [*formerly also* †152.13]
- [†.843 3-†.843 7] Visual sensation and perception (Psychological optics)  
Class in 152.1
- .844 Eyeball [*formerly also* †152.14]  
Including physiology of crystalline lens, aqueous humor, vitreous humor
- .846 Movements of eye [*formerly also* †152.16]  
Ocular muscular mechanism
- [†.846 2] Binocular phenomena  
Class in 152.1
- .847 Eyelids and tear ducts [*formerly also* †152.17]  
Palpebral and lacrimal mechanism
- [†.848] Tests of visual perception  
Class in 152.18
- .85 Physiological audition [*formerly also* †534.7]
- .851 External ear (Pinna) [*formerly also* †152.21]
- .854 Middle ear [*formerly also* †152.24-†152.27]  
Including physiology of tympanic membrane, eustachian tube, ossicles [*all formerly* †612.855-†612.857]; mastoid processes
- [†.855-†.857] Parts of middle ear  
Class in 612.854
- .858 Internal ear (Labyrinth) [*formerly also* †152.28]  
Including physiology of semicircular canals, cochlea, basilar membrane, organ of Corti, acoustic nerve, endolymph
- [†.858 7-†.858 76] Auditory sensation and perception  
Class in 152.2
- [†.858 78] Tests of auditory perception  
Class in 152.28

*Medical sciences*

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- 612.86 Olfactory organs [*formerly also* †152.31]  
[†.867] Olfactory sensation and perception  
Class in 152.3  
[†.867 8] Tests of olfactory sensation  
Class in 152.37  
.87 Gustatory organs [*formerly also* †152.41]  
*For gustatory sensation and perception, see* 152.4  
.88 Tactile and proprioceptive organs [*formerly also* †152.51,  
†152.61]  
[†.882-†.884] Cutaneous sensation and perception  
Class in 152.5  
[†.885] Proprioceptive sensation and perception  
Class in 152.6  
[†.886 1] Orientational sensation and perception  
Class in 152.6  
.89 Autonomic nervous system  
Including sympathetic and parasympathetic nervous systems

- 613 Hygiene [*formerly also* subdivisions of \*616]  
Health and its preservation  
Including personal hygiene  
*For public health, see* 614; *health education in schools, 371.76*

**SUMMARY**

- 613.1 Environment and health  
.2 Food and health  
.3 Beverages and health  
.4 Cleanliness and health  
.48 Clothing and health  
.5 Housing and health  
.6 Hygiene under unusual conditions  
.7 Rest and exercise  
.8 Stimulants and narcotics in relation to health  
.9 Hereditary factors and health



Decimal Classification

- 613.1 **Environment and health**  
*For housing and health, see 613.5*
- .11 **Climate and health**  
*For seasonal changes and health, see 613.13; temperature and health, 613.18*
- .111 Arctic hygiene
- .113 Tropical hygiene
- .119 Acclimation
- .12 **Health resorts**  
*Including spas, seashore and mountain resorts*
- .13 **Seasonal changes and health**  
*For temperature and health, see 613.18; climate and health, 613.11*
- .14 **Humidity and health**
- .18 **Temperature and health**  
*Including effects of indoor temperatures and air conditioning on health*  
*For humidity and health, see 613.14; climate and health, 613.11*
- .19 **Air and light**
- .192 Fresh air and breathing
- .193 Sun bathing
- .194 Nudism
- ✓ .2 **Food and health**  
*For food analysis, see 543.1; digestion and metabolism of food, 612.3; food inspection, 614.31; food values, 641.1; cookery, 641.5-641.8; beverages and health, 613.3*
- [†.22] **Food for infants**  
*Class in 649.3*
- [†.23] **Dietotherapy**  
*Class in 615.854*
- .24 **Underweight and health**  
*Including effects of fasting, famine, starvation*
- .25 **Overweight and health**

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- 613.26      **Vegetarianism and health**  
Including health aspects of fruits [*formerly* †613.27], nuts,  
vegetables, low-protein diets
- [†.27]      **Fruits**  
Class in 613.26
- .28      **High-protein diets and health**  
Including health aspects of fish and shellfish [*both formerly*  
†613.29], meat, milk, egg diets
- [†.29]      **Fish and shellfish**  
Class in 613.28
- .3      **Beverages and health**  
*For analysis of beverages, see 543.1; inspection of beverages,*  
*614.34; alcoholic beverages and health, 613.8*
- .31      **Water and health**
- [†.33–†.34]      **Biological analysis of water**  
Class in 628.16
- [†.35]      **Purification of water**  
Class in 628.16
- .36      **Iced beverages and health**
- .37      **Hot beverages and health**  
Including hot tea, coffee, cocoa
- .38      **Carbonated beverages and health**  
Including mineralized waters
- .4      **Cleanliness and health**  
Including bathing  
*For hydrotherapy, see 615.853; swimming pools and bathing*  
*beaches, 614.796*
- .48      **Clothing and health**
- .5      **Housing and health**
- .6      **Hygiene under unusual conditions**
- [†.61–†.66]      **Industrial hygiene**  
Class in 331.82
- .67      **Military hygiene [*formerly* \*356.92]**  
*For military medical services, see 355.345*



## Decimal Classification

- 613.68 Naval hygiene [*formerly* \*359.98]  
Including nonmilitary shipboard hygiene  
*For naval medical services, see* 359.345
- .69 Survival instructions  
Survival after airplane accidents, shipwrecks, and similar disasters  
Including survival in arctic, tropical, desert regions  
*For protection of civilians in time of war, see* 355.232 2
- .7 Rest and exercise
- .71 Exercise and health  
Class gymnastics [*formerly* †613.71] in 796.41  
*For physical education, athletics, sports in school, see* 371.73–371.75; *medical gymnastics, 615.824*
- .78 Correct posture
- .79 Relaxation and health  
Including rest and sleep as factors in maintaining health
- ✓.8 Stimulants and narcotics in relation to health [*formerly* \*616.86]  
Including effects of poisons on nervous system [*formerly* †131.334, †612.821 4]; effects of alcohol, *tobacco*  
*For treatment of alcoholism, see* 616.861; *of drug addiction, 616.863; ethical aspects, 178*
- ✓.9 Hereditary factors and health  
*For biological and physical determinants of personality, see* 137.31; *influence of heredity on personal characteristics, 136.3*
- [†.91] Congenital deformities  
Class in 611.012
- .92 Inherited mental disorders  
*For treatment of a specific mental disorder, see the subject, e.g., manic-depressive psychoses 616.895; psychological aspects of a specific mental disorder, the subject, e.g., manic-depressive psychoses 132.195*
- ✓.93 Inherited diseases  
*For treatment of a specific disease, see the subject, e.g., strabismus 617.762; inherited mental disorders, 613.92*

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613.94 Eugenics [*formerly* \*301.323, *formerly also* †575.1]  
Safeguarding and improving human heritage thru judicious choice of mate and eugenic practices, e.g., sterilization, birth control

*For use of eugenic practices to prevent crime, see 364.42*

.942 Sterilization [*formerly* \*301.323]

.943 Birth control [*formerly* \*612.63]

Including natural (rhythm), chemical and mechanical methods of contraception

*For planned parenthood, see 301.426; physiology of reproductive system, 612.6*

## ✓ 614 Public health and other public aspects of medicine

*For forensic medicine, see 340.6; medical welfare work, 362.1; toxicology, 615.9; sanitary engineering, 628; local boards of health, 352.4; offenses against public health and safety, 364.13*

### SUMMARY

- 614.1 Registration and certification
- .2 State control of medicine
- .3 Food and drug control
- .4 Control of disease
- .5 Control of specific diseases
- .59 Control of noncommunicable diseases
- .6 Disposal of the dead
- .7 Sanitation and sanitary control
- .8 Safety measures

.09 History of public health movement

*Including public health legislation, reports, surveys*

*Divide like 940-999, e.g., public health in England 614.094 2*

✓ .1 Registration and certification

*Class vital statistics [*formerly* †614.1] in 312*

.11 Birth certification

.12 Death certification

✓ .14 Reports on causes of death

*For statistics on causes of death, see 312.26*

.15 Morbidity reports

.17 Premarital examinations and certification



## Decimal Classification

- 614.2      **State control of medicine**  
Including medical laws, regulations, economic aspects; medical privilege [*formerly* \*340.6]  
Class control of patent medicines [*formerly* \*614.2] in 614.35  
*For local boards of health, see 352.4*
- .22      **Anatomy and vivisection laws**
- [†.23]      **Expert testimony**  
Class in 340.6
- .24      **Licensure and registration**  
Including licensing and registration of physicians, surgeons, dentists, pharmacists, nurses, and other medical specialists.  
*For directories of physicians and surgeons, see 610.58; state board examinations, 610.76*
- .25      **Medical economics**  
*For prepaid medical care, see 368.382*
- .253      **Economics of medical care**  
Cost of medical services to patient
- .255      **Economics of medical practice**  
Including fee schedules, collecting of accounts, physicians' income  
*For medical ethics, see 610.694*
- .26      **Laws against quackery and malpractice**
- [†.27]      **Control of nostrums and patent medicines**  
Class in 614.35
- .28      **Control of sale of poisons and narcotics**  
Including regulations of manufacture, sale, use  
*For inspection of drugs, see 614.35*
- .3      **Food and drug control**  
Control of adulterations and health hazards in commodities by means of legislation, inspection, standardization, certification
- .31      **Food and food products [*formerly also* †614.33]**  
Inspection of fresh and processed fruits, vegetables, meats, poultry, fish and shellfish

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- 614.32      **Milk and milk products**  
Inspection and certification of milk, cream, milk by-products,  
cheese and cheese foods, butter, oleomargarine  
*For chemical analysis of milk and milk products, see 543.2;  
testing milk, 637.127, butter, 637.22, cheese, 637.32*
- [†.33]      **Other articles of food**  
Class in 614.31
- .34      **Beverages**  
Inspection of alcoholic and nonalcoholic beverages  
Including wines, beer, liquors [*formerly also* †178 4], fruit and  
vegetable juices, carbonated beverages, tea, coffee, chocolate,  
cocoa
- .35      **Drugs and cosmetics**  
Including control [*formerly* †614.27, \*614.2] and inspection of  
patent medicines
- .36      **Tobacco and tobacco products**
- .37      **Other commodities**  
Including inspection of pigments, paper, fabrics, toys
- .4      **Control of disease**  
*For control of specific diseases, see 614.5*
- .42      **Geographic distribution of disease (Medical geography)**  
Class medical climatology [*formerly* †614.42] in 616.988
- .422      **Distribution by zones and physical regions**  
Divide like 631.091, e.g., diseases in the tropics 614.422 3
- .423-.429      **Distribution by country**  
Divide like 930-999, e.g., diseases in India 614.425 4
- .43      **Disease carriers**  
Transmission of disease by animal carriers (vectors) and their  
control  
*For treatment of a specific disease transmitted by carriers,  
see the disease, e.g., malaria 616.936 2; control of diseases  
transmitted by animals, 614.56*
- .432      **Insects as disease carriers**
- .432 2      **Flies**
- .432 3      **Mosquitoes**



## Decimal Classification

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- 614.432 4 Lice and fleas  
.432 9 Other insects  
.433 Ticks and other arachnids as disease carriers  
.434 Birds as disease carriers  
.438 Rodents as disease carriers  
.439 Other disease carriers  
Including human carriers
- ✓.44 Preventive medicine  
Public measures for preventing disease  
*For control of specific diseases, see 614.5*
- .45 Isolation  
Prevention of spread of disease in homes, hospitals, schools,  
public places thru isolation
- .46 Quarantine  
Maritime, land, and air quarantine regulations
- ✓.47 Immunization  
Public measures for preventing disease thru protective  
inoculation
- [†.471-†.478] Immunization against specific diseases  
Class in 614.5 and its subdivisions
- .48 Disinfection  
Including fumigation, sterilization  
*For disinfectants, see 615.77*
- ✓.49 Epidemiology  
History and control of epidemics  
Divide like 930-999, e.g., epidemics in France 614.494 4
- .5 **Control of specific diseases [formerly \*616 and its  
subdivisions]**  
Control of specific diseases thru immunization [formerly †614.471-  
†614.478], isolation, and other public health measures
- 
- 614.511-614.566 Control of specific infectious diseases  
*For control of noncommunicable diseases, see 614.59*
- .511 Typhoid fever (Enteric fever)
- .512 Diphtheria

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- 614.514 Cholera  
Asian, Indian, epidemic, malignant, pestilential cholera
- [†.515] Cholera-infantum (Epidemic diarrhea)  
Class in 614.517
- .516 Dysentery  
Amoebic and bacillary dysentery
- .517 Epidemic diarrhea [*formerly also* †614.515]
- .518 Influenzas  
Including Spanish influenza, Asian "flu," other acute  
influenzalike diseases in epidemic form
- .52 Exanthematous diseases  
Diseases characterized by skin eruptions
- .521 Smallpox (Variola)  
Including alastrim
- .522 Scarlet fever (Scarlatina)
- .523 Measles (Rubeola [*formerly also* †614.524])
- .524 German measles (Rubella, roetheln)  
Class rubeola [*formerly* †614.524] in 614.523
- .525 Chicken pox (Varicella)
- .526 Typhus
- .53 Malarial fevers  
Including acute (intermittent and remittent), pernicious,  
chronic malarias  
*For control of mosquitoes, see* 614.432 3
- .54 Other communicable diseases
- .541 Yellow fever  
*For control of mosquitoes, see* 614.432 3
- .542 Pulmonary tuberculosis
- .543 Whooping cough (Pertussis)
- .544 Mumps (Epidemic parotitis)
- .545 Puerperal fever (Puerperal septicemia)
- .546 Leprosy (Hansen's disease)



## Decimal Classification

- 614.547 Venereal diseases  
.547 2 Syphilis  
.548 Gonorrhea  
.549 Poliomyelitis  
.55 Parasitic diseases  
Divide like 616.96, e.g., control of shistosomiasis 614.553  
*For malarial fevers, see 614.53; trichinosis, 614.562; amoebic dysentery, 614.516*
- .56 Diseases transmitted by animals  
*For disease carriers, see 614.43; malarial fevers, 614.53; yellow fever, 614.541*
- .561 Anthrax (Charbon)  
Woolsorters' disease, splenic fever, malignant and contagious anthrax
- .562 Trichinosis
- .563 Hydrophobia (Rabies)
- .564 Glanders (Equinia)  
Including farcy
- .565 Undulant fever (Brucellosis)
- .566 Psittacosis
- .59 Control of noncommunicable diseases  
Including public health aspects of degenerative diseases, cancer, diabetes mellitus  
*For mental hygiene, see 131.3*
- .6 Disposal of the dead  
*For manners and customs in treatment of the dead, see 393*
- .61 Interment and cemeteries  
*For mortuary architecture, see 726.8; design and care of cemeteries, 718*
- .62 Cremation and crematories  
*For mortuary architecture, see 726.8*
- .63 Transportation of the dead  
Including importation

*Medical sciences*

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- 614.64      **Embalming and undertaking**  
              Including post-mortem plastic surgery
- .68          **Morgues**
- .7           **Sanitation and sanitary control**  
              *For sanitary engineering, see 628*
- .71          **Dangerous air pollution**  
              Regulations for control of air pollution and contamination by  
              fumes, smoke, gases [*formerly* †614.72], other industrial proc-  
              esses  
              Including smog  
              *For nuisances, see 614.76*
- .715        **Air contamination by radioactive substances**  
              Including preventive measures against radioactive fallout
- [†.72]      **Air pollution by noxious gases**  
              Class in 614.71
- [†.73-†.75] **Air pollution by vegetable, animal trades; storage and  
              handling of noxious and offensive materials**  
              Class in 614.76
- .76          **Nuisances**  
              Regulations for control of offensive odors from animal and  
              vegetable trades [*both formerly* †614.73-†614.74], stables, sties,  
              offal, cesspools, dead animals, garbage  
              Including storage and handling of noxious and offensive  
              materials [*formerly* †614.75]  
              *For sewage treatment and disposal, see 628.3; municipal  
              garbage treatment and disposal, 628.445; rural sewage and  
              refuse disposal, 628.74*
- .77          **Water and soil pollution**
- [†.771]      **Soil analysis**  
              Class in 631.42
- .772        **Water and water supply**  
              Including public health aspects of fluoridation  
              *For techniques and methods of water purification, see  
              628.166 3*



Decimal Classification

- 614.776 Soil pollution and drainage  
*For agricultural drainage, see 631.6*
- .78 Noise control
- [†.781] City planning  
*Class in 711.4*
- [†.782] Subways and elevated ways  
*Class in 711.75*
- [†.783] Parks  
*Class in 711.558*
- [†.784] Building laws and codes  
*Class in 692.9*
- .79 Public buildings and assembly places  
*Including premises, equipment, operations, operating personnel;  
sanitary laws and regulations*
- .791 Eating places  
*Including restaurants, lunchrooms, milk bars, ice-cream  
parlors*
- .792 Hotels  
*Including inns, motels, tourist houses, boarding houses  
For hotel administration, see 647.94*
- .794 Public comfort stations  
*For engineering aspects of comfort stations, see 628.45*
- .796 Swimming pools and bathing beaches  
*For water safety, see 614.81*
- .797 Barber shops and beauty shops  
*For administration of beauty shops, see 646.72; of barber  
shops, 646.74*
- .799 Public carriers  
*For traffic safety, see 614.86*
- ✓ .8 Safety measures  
*Prevention of accidents and casualties, Radiation protection*
- .81 Water safety  
*Safety measures at beaches, public pools  
Including rescue, resuscitation of drowning victims*
- .82 Prevention of gas suffocation

*Medical sciences*

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- 614.83 Prevention of explosions  
Laws and regulations on and inspection of manufacture, storage, transportation of explosives and combustible materials
- .84 Fire prevention and protection  
*For fire departments, see 352.3; engineering aspects of fire engines, 621.68*
- .841 Fire prevention
- .843 Fire extinction
- .844 Extinction thru automatic sprinkling devices
- .845 Extinction with chemical extinguishers
- .846 Extinction with water
- .847 Safety measures  
Including laws and regulations on exits from public buildings [formerly †614.848], fire escapes, fire-resistant construction  
*For fire prevention, see 614.841*
- [†.848] Exits from public buildings  
Class in 614.847
- [†\*.85] Industrial safety and hygiene  
Class industrial hygiene in 331.82, industrial safety in 331.823; building laws and inspection in 692.9
- .86 Traffic safety
- .862 Highway safety
- .863 Railway safety  
Including safety regulations on streetcars
- .864 Water travel safety  
Including regulations concerning lifeboats, life preservers, communication equipment, harbor safety [all formerly also †614.865-†614.867]
- [†.865-†.867] Harbor safety, lifeboats  
Class in 614.864
- .868 Rescue operations after shipwrecks
- .869 Air travel safety
- .87 Accidents and safety measures under other conditions  
Comprehensive works only  
Class accidents and safety measures under a specific set of conditions with the subject, e.g., ski safety 796.93



## Decimal Classification

✓ 614.88

### First aid

Nonprofessional emergency treatment to accident victims before regular medical or surgical care can be given

*For rescue and resuscitation of victims of drowning, see 614.81*

[†.881-†.883] Ambulance service

Class in 362.18

[†.9] Veterinary sanitation

Class in 636.089 4

615

## Therapeutics and pharmacology

*For a therapy applied to a specific disease, see the disease, e.g., fever therapy in syphilis 616.951 3*

### SUMMARY

615.1	Pharmacology
.2	Mineral drugs
.3	Organic drugs
.4	Practical pharmacy
.5	Therapeutics
.6	Methods of medication
.7	Pharmacodynamics
.8	Physical medicine
.85	Other therapies
.856	Quacks and quackery
.88	Patent medicine
.89	Folk medicine
.9	Toxicology

### 615.1-615.39 Pharmacology and pharmacy

*For practical pharmacy, see 615.4; toxicology, 615.9; patent medicines, 615.88*

✓ .1

#### Pharmacology

Including materia medica

✓ .11

#### Pharmacopoeias

Divide like 940-999, e.g., Farmacopea Chilena 615.118 3

.12

#### Dispensatories

Divide like 940-999, e.g., British pharmaceutical codex 615.124 2

✓ .13

#### Formularies (Collected prescriptions)

Divide like 930-999, e.g., National Formulary (United States) 615.137 3

Medical sciences

- 615.14 Posology  
Including prescription writing, therapeutic and physiological incompatibilities
- .19 Pharmaceutical chemistry  
Manufacture and analysis of drugs  
*For manufacture, identification, assaying of specific drugs and biological products, see 615.2-615.39, physiological and therapeutic action of drugs, 615.7*
- .190 15 Chemical analysis of drugs [formerly †\*543.4]  
Including chemical analysis of medicinals
- .190 18 Drug assay methods
- ✓.2 Mineral drugs  
Manufacture, identification, assaying of synthetic inorganic drugs  
Including naturally occurring mineral drugs; comprehensive works on synthetic drugs  
Arrange specific mineral (inorganic) drugs alphabetically, using A1 for comprehensive works, e.g., calomel 615 2 C1  
*For synthetic organic drugs, see 615.31*
- .3 Organic drugs  
Manufacture, identification, assaying
- .32 Pharmacognosy  
Drugs of vegetable [*formerly also †615.33*] and animal origin  
Including crude drugs, alkaloids, herbals  
Arrange specific drugs of vegetable and animal origin alphabetically except as provided for in 615.328-615.39, using A1 for comprehensive works, e.g., digitalis 615.32 D5
- 
- ✓.328 615.328-615.39 Biological products  
Including synthetic biological products
- ✓.329 Vitamins  
[†.33] *For fish and shark liver oils, see 615.34*
- .34 Antibiotics
- .35 Other vegetable drugs  
Class in 615.32
- .34 Fish and shark liver oils
- .35 Ferments (Enzymes)  
Including pepsin, diastase, trypsin, chymotrypsin, papain



## Decimal Classification

- ✓ 615.36      Organotherapy (Endocrinotherapy) [*formerly*  
✓ \*616.4]
- Including endocrine drugs, hormones
- .362      Thyroid and parathyroid extracts  
        Including synthetic thyroxin
- .363      Anterior pituitary hormones
- ✓ .364      Adrenal hormones  
        Including ACTH, cortisone, adrenalin
- .365      Insulin
- .366      Sex hormones
- .367      Liver extracts
- .369      Extracts and secretions of other organs
- ✓ .37      Serum therapy (Immunotherapy) [*formerly* \*616.97]  
        Treatment or prevention of diseases by injection of vaccines,  
        toxins, antitoxins, specific serums  
        *For allergies, anaphylaxis, see 616.97; immunization as a  
        public health measure, 614.47; in control of a specific  
        disease, the disease, e.g., diphtheria 614.512*
- .372      Vaccines  
        Including bacterins, sero-bacterins
- .373      Toxins  
        Including toxoids
- .375      Antitoxins  
        Including toxin-antitoxins, convalescent serums
- ✓ .39      Human blood products
- .4      **Practical pharmacy**  
        Preparation, e.g., filling prescriptions, and dispensing of drugs
- .401 5      Pharmaceutical mathematics
- .406 5      Economics of pharmacy
- .42      Solutions and extracts  
        Including preparation of decoctions, infusions, tinctures, elixirs,  
        syrups, glycerites, collodions
- .43      Pills and powders  
        Including capsules, tablets, troches



Medical sciences

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- 615.45 Ointments and emulsions
  - .49 Other preparations  
Including plasters, resins
- 

615.5-615.895 Methods of treating diseases

*For surgery, see 617; organotherapy, 615.36; serum therapy, 615.37*

.5 Therapeutics

- .53 Systems of medicine
  - .531 Allopathy
  - .532 Homeopathy
  - .533 Osteopathy [*formerly †\*615.82*]
  - .534 Chiropractic [*formerly †\*615.82*]  
Including spondylotherapy
  - .535 Naturopathy [*formerly \*615.85*]
  - .537 Eclectic medicine  
Including botanic and Thomsonian medicine [*both formerly †615.855, \*615.85*]
- .54 Age and therapeutics
  - .542 Pediatric therapeutics  
*For pediatrics, see 618.92*
  - .547 Geriatric therapeutics  
*For geriatrics, see 618.97*

.6 Methods of medication

- .61 Oral medication
- .62 Rectal medication  
Including enemas
- .63 Parenteral medication  
Including subcutaneous, intradermal, intramuscular, intravenous [*formerly †615.65*], intra-arterial injections  
*For blood and blood plasma transfusions, see 615.65*
- .64 Inhalatory medication  
*For anesthetics, see 615.781*



## Decimal Classification

- \* not to be used 615.65
- Blood and blood plasma transfusions [formerly \*616.151]  
Class intravenous injections [formerly †615.65] in 615.63
- .650 74 Blood and blood plasma banks [formerly \*616.151]
- .66 Medication thru serous and mucous membranes
- .67 External medication  
For hydrotherapy, see 615.853
- ✓ .7 Pharmacodynamics, *chemotherapy*  
Physiological and therapeutic action of drugs
- ✓ .71 Drugs affecting cardiovascular system [formerly also †612.174]
- .711 Heart stimulants
- .716 Heart depressants
- .718 Drugs affecting blood and blood-forming organs  
Including blood coagulants and anticoagulants
- .72 Drugs affecting respiratory system  
Including expectorants, errhines, cough remedies
- .73 Drugs affecting digestive system
- .731 Emetics
- .732 Cathartics  
Including laxatives, purgatives
- .733 Anthelmintics
- .734 Digestants
- .735 Demulcents
- .74 Drugs affecting secretion  
For diuretics and antidiuretics, see 615.761
- .75 Antipyretics (Febrifuges)
- ✓ .76 Drugs affecting urogenital system
- ✓ .761 Drugs affecting urinary system  
Including diuretics, antidiuretics
- .766 Drugs affecting reproductive system
- .77 Drugs affecting the skin  
Including astringents, counterirritants, emollients, deodorants, antiseptics, disinfectants

Medical sciences

✓ 615.78

Drugs affecting nervous system

*For antipyretics, see 615.75*

.781

Anesthetics

*For methods and techniques of administering surgical anesthetics, see 617.96*

.782

Hypnotics

*Including depressants [formerly also †615.786], narcotics, sedatives*

.783

Analgesics

*Including anodynes*

.784

Antispasmodics

*Including mydriatics*

✓ .785

Stimulants

[†.786]

Depressants

*Class in 615.782*

.788

Tranquilizers

✓ .8

Physical medicine

[†.811]

Bloodletting, venesection, cupping

*Class in 615.89*

[†.812]

Setons and issues

*Class in 617.917 8*

[†.813]

Bandages and ligatures

*Class bandages in 617.93; ligatures in 617.917 8*

[†.814]

Acupuncture

*Class in 615.89*

[†.815]

Oxygen therapy

*Class in 615.836*

✓ .82

Mechanotherapy

*Including massage, vibration, exercise, rest*

*Class osteopathy in 615.533, chiropractic in 615.534 [both formerly †\*615.82]*

.824

Medical gymnastics

*For exercise as a factor in maintaining health, see 613.71*



## Decimal Classification

- 615.83 Physical therapies  
*For hydrotherapy, see 615.853*
- .831 Phototherapy
- .831 4 Heliotherapy
- .831 5 Ultraviolet rays as therapy  
*For infrared rays as therapy, see 615.832 2*
- .831 9 Other phototherapies  
Including therapeutic use of colored lights
- .832 Thermotherapy  
*For diathermy, see 615.845 3*
- .832 2 Infrared rays as therapy
- .832 5 Fever therapy  
Including malarial fever therapy
- .832 9 Cryotherapy (Hypothermia)  
Therapeutic application of low temperatures
- .834 Climatotherapy
- .836 Aerotherapy  
Including oxygen therapy [*formerly* †615.815],  
pneumotherapy
- .837 Music therapy
- ✓.84 Electrotherapy and radiotherapy
- .842 Actinotherapy  
*For phototherapy, see 615.831*
- ✓.842 2 X-ray therapy
- ✓.842 3 Radium therapy
- ✓.842 4 Radioactive isotope therapy
- ✓.845 Electrotherapy
- .845 3 Diathermy (Thermopenetration)
- .85 Other therapies  
Class naturopathy in 615.535; botanic and Thomsonian medicine  
in 615.537 [*all formerly* \*615.85]
- .851 Mental therapies  
*For psychiatric therapies, see 616.891*
- .851 2 Suggestion therapy (Hypnotherapy)

Medical sciences

- 615.851 5 Occupational therapy  
Including recreational therapy  
*For vocational rehabilitation of physically handicapt, see 371.91*
- .852 Faith healing (Hierotherapy) [*formerly also †133.94*]
- .853 Hydrotherapy  
Including balneotherapy
- ✓.854 Dietotherapy [*formerly also †613.23*]  
Including vitamin therapy [*formerly \*616.46*]
- [†.855] Botanic and Thomsonian medicine  
Class in 615.537
- .856 Quacks and quackery  
Including Perkinism
- .88 Patent medicines  
*For inspection of patent medicines, see 614.35*
- .89 Folk medicine  
Including bloodletting, venesection, cupping [*all formerly †615.811*]; acupuncture [*formerly †615.814*]; leeching, and other primitive, ancient, and medieval practices
- .895 Medical superstitions
- ✓.9 Toxicology  
Source, chemical composition, physiological effects, tests, antidotes of poisons  
*For pharmacology, see 615.1; control of sale of poisons, 614.28*
- .902 4 Industrial toxicology
- .907 5 Detection of poisons and poisoning
- .91 Gaseous poisons  
Including asphyxiating gases, lethal gases used in war  
*For chemical warfare services, see 358.34; air pollution, 614.71*
- .92 Mineral (Inorganic) poisons  
*For gaseous poisons, see 615.91*
- .921 Acidic poisons



*Decimal Classification*

- 615.922 Alkaline poisons
- .923 Nonmetallic poisons  
*For acidic poisons, see 615.921*
- .924 Phosphorus
- .925 Saline poisons
- .926 Arsenical poisons
- .927 Mercurial poisons
- .928 Lead poisons
- .929 Copper poisons
- .93 Vegetable poisons  
Comprehensive works  
Class specific vegetable poisons [*formerly †615.93*] in 615.95
- .94 Animal and food poisons  
Composite, naturally occurring animal and food poisons  
*For a specific organic poison, e.g., formic acid, see 615.95*
- ✓.942 Venoms [*formerly †612.314*]  
Including snake, scorpion, spider, bee venoms
- .944 Food poisons  
Including botulism, ptomaines
- .945 Naturally poisonous foods  
Including mussels, toadstools, poisonous fish
- .95 Organic poisons  
Comprehensive works  
Including neurotic poisons; cerebral, spinal, cerebrospinal, cerebrocardiac poisons [*all formerly †615.96-†615.99*]  
Arrange alphabetically, using A1 for comprehensive works, e.g., aconite 615.95 A2  
*For vegetable poisons, see 615.93; animal and food poisons, 615.94*
- [†.96-†.99] Cerebral, spinal, cerebrospinal, cerebrocardiac poisons  
Class in 615.95

616

Medicine

Comprehensive works on pathology, medical and surgical treatment of disease

Including clinical and internal medicine

Class hygiene in 613, control of specific diseases in 614.5 [both formerly \*616 and its subdivisions]

For surgery, see 617; gynecology and obstetrics, 618, other medical specialties, 618.9

SUMMARY

- 616.01 Medical microbiology
- .02 Medical manuals
- .07 Pathology (Pathological physiology and anatomy)
- .08 Psychosomatic medicine
- .1 Diseases of cardiovascular system
- .2 Diseases of respiratory system
- .3 Diseases of digestive tract
- .4 Diseases of blood-forming, lymphatic and endocrine systems
- .5 Dermatology (Diseases of skin)
- .6 Diseases of urogenital system
- .7 Diseases of musculoskeletal system
- .8 Diseases of nervous system
- .9 Communicable and other diseases

- ✓ .01 Medical microbiology
  - .011 Pathogenic microorganisms
    - For bacteriological examination, see 616.075 81
- ✓ .012 Nosology
  - Classification of disease
- ✓ .014 Pathogenic bacteria
- .015 Pathogenic fungi
- ✓ .016 Pathogenic protozoa
- ✓ .019 Other pathogenic microorganisms
  - Including pathogenic viruses, rickettsiae.
- ✓ .02 Medical manuals
- .024 Domestic medicine
  - Treatment of minor ailments without direction of physician
  - For first aid, see 614.88



## Decimal Classification

- ✓ 616.07 Pathology (Pathological physiology and anatomy)  
Study of structural and functional changes caused by disease  
*For pathology of a specific part of human body, see treatment of the part, e.g., pathological changes in lungs 616.240 7; surgical pathology, 617.075 8; physiological effects of physical agents, 612.014 4; teratology, 611.012; study and teaching of medicine, 610.7*
- ✓ .072 Symptomatology  
Manifestation of diseases  
Including headaches, fevers, infections, necrosis (gangrene), atrophies, hypertrophies, edemas  
*For interpretation of symptoms, see 616.075; symptoms of a specific disease and of diseases of a specific system or organ, the disease, e.g., coronary thrombosis 616.123; symptoms of neurological diseases, 616.84*
- ✓ .075 Diagnoses  
Interpretation of symptoms  
\*Including prognosis; physical, clinical, differential diagnoses
- 
- ✓ .075 6-616.075 9 (Laboratory diagnosis) ← - 616.075 7  
Chemical diagnosis
- ✓ .075 61 Blood analysis  
*For blood counts, see 612.112*
- .075 66 Urinalysis
- ✓ .075 7 X-ray diagnosis (Roentgen diagnosis),  
Including fluoroscopic examinations  
Class microscopy in diagnosis [formerly †616.075 7] in 616.075 8
- .075 8 Microscopy in diagnosis [formerly †616.075 7]
- .075 81 Bacteriological examinations
- .075 83 Biopsies  
Microscopic study of lesions and tissue changes  
Including pathological histology  
*For autopsies, see 616.075 9*
- ✓ .075 9 Autopsies (Post-mortem examinations)



Medical sciences

616.08 Psychosomatic medicine

Comprehensive works

*For treatment of a specific disease of psychosomatic origin, see the disease, e.g., gastric ulcers 616.334; diseases of nervous system, 616.8; mental hygiene, 131.3*

.092 Case histories

616.1-616.998 Specific diseases

Including pathology [*formerly* subdivisions of †612.1-†612.89], treatment of diseases of specific systems and organs

Divide each number, where applicable, like 616.07-616.092, e.g., case histories on diabetes mellitus 616.460 92

✓.1 Diseases of cardiovascular system

.11 Diseases of cardiac membranes

Including pericarditis, endocarditis

✓.12 Diseases of heart

.122 Angina pectoris

.123 Coronary occlusion

Including coronary sclerosis, thrombosis, infarction

*For arterial embolisms and thromboses, see 616.135; venous embolisms and thromboses, 616.145*

✓.124 Myocarditis

.125 Valvular diseases

Including diseases of the mitral, tricuspid, pulmonary valves

.126 Degenerative heart diseases

Including arteriosclerotic heart disease

*For arteriosclerosis, see 616.132; coronary occlusion, 616.123*

✓.13 Diseases of arteries

✓.132 Arteriosclerosis

Including essential hypertension

*For arteriosclerotic heart disease, see 616.126*

.133 Arterial aneurysms [*formerly* †616.247]

*For cerebral aneurysms, see 616.81*



Decimal Classification

616.135

Arterial embolisms [*formerly* †616.247] and thromboses

*For coronary occlusion, see 616.123; venous embolisms and thromboses, 616.145; cerebral embolisms and thromboses, 616.81*

.14

Diseases of veins and capillaries

.142

Phlebitis

Including thrombophlebitis

.143

Varicose veins (Varix)

.145

Venous embolisms and thromboses

*For coronary occlusion, see 616.123; arterial embolisms and thromboses, 616.135; cerebral embolisms and thromboses, 616.81*

.148

Diseases of capillaries

Including telangiectasis, hyperpermeability

.15

Diseases of blood

Including anemias, hemophilia, agranulocytosis, mononucleosis

Arrange alphabetically by disease, using A1 for comprehensive works, e.g., pernicious anemia 616.15 P3

*not to be followed* } Class diseases of lymphatic system in 616.42, of spleen in 616.41  
[both formerly \*616.15]

{ If preferred, class leukemia in 616.994 018 5

[\*.151]

Blood transfusions

Class blood transfusions in 615.65; blood banks in 615.650 74

.2

Diseases of respiratory system

Use 616.200 1-616.200 9 for form divisions

Class scrofula [*formerly* \*616.2] in 616.995 42

.201

Croup

*For diphtheria, see 616.931 3*

.202

Hay fever [*formerly* \*616.97]

.203

Influenza

Including endemic and epidemic influenza, grippe

.204

Whooping cough (Pertussis)

632

Medical sciences

- 616.205 Common cold (Coryza, rhinitis)  
[†.206] Asphyxiation  
Class in 617.18
- 21  
use when  
subdiv. other Nos.  
212
- Otorhinolaryngology [formerly \*617.8] <sup>use this No</sup>  
Including comprehensive works on diseases of eye, ear, nose,  
larynx  
For otology, see 617.8; ophthalmology, 617.7
- Rhinology  
Diseases of nose, nasopharynx, accessory sinuses  
For common cold, see 616.205; surgery of nose, 617.523
- 22
- Laryngology  
Diseases of larynx, glottis, vocal cords, epiglottis  
For surgery of throat, see 617.53; diseases of mouth and  
throat, 616.31
- .23 Diseases of trachea and bronchi  
Including trachitis, bronchitis, bronchiectasis  
For bronchopneumonia, see 616.241
- 24
- .241 Diseases of lungs  
Pneumonias  
Including lobar, broncho-, pleural, lipoid, virus pneumonias  
For necropneumonia, see 616.245
- .244 Pneumoconiosis  
Including silicosis, cholicosis, pulmonary abscesses
- .245 Necropneumonia
- .246 Pulmonary tuberculosis  
If preferred, class in 616.995 24
- [†.247] Embolisms and aneurysms  
Class arterial embolisms in 616.135; arterial aneurysms in  
616.133
- .248 Pulmonary emphysema
- .25 Diseases of pleura  
Including pleurisy  
For pleural pneumonia, see 616.241
- .27 Diseases of mediastinum



*Decimal Classification*

- 616.3 Diseases of digestive tract
- .31 Diseases of mouth and throat
    - For laryngology, see 616.22; dentistry, 617.6; diseases of pharynx, 616.32*
  - .312 Trench mouth (Vincent's angina)
  - .313 Mumps (Epidemic parotitis)
  - .314 Diseases of tonsils
    - Including quinsy, tonsillitis, abscess tonsils
  - ~~.32~~ Diseases of pharynx and esophagus
  - .33 Diseases of stomach
  - .332 Functional disorders of stomach
    - Including dyspepsia [*formerly* †616.39], disorders of secretion, gastric indigestion
  - .333 Gastritis
  - .334 Gastric ulcers
  - .339 Other diseases of stomach
    - Including merycism, gastroenteritis, gastroptosis
  - .34 Diseases of intestines
    - Including diseases of duodenum, jejunum, appendix, ileum, colon, cecum
    - Class abdominal hernias [*formerly* †616.34] in 617.559
  - .342 Functional disorders of intestines
    - Including diarrhea, constipation, obstructions of intestines
  - .343 Ulcers
    - Comprehensive works
      - For gastric ulcers, see 616.334*
  - .343 2 Peptic ulcers
  - .343 3 Duodenal ulcers
  - .343 4 Gastrojejunal ulcers
  - .344 Enteritis
    - Including ileitis, colitis, Crohn's disease, duodenitis, jejunitis
  - .35 Proctology
    - Diseases of rectum and anus
      - For surgery of rectum and anus, see 617.555*

Medical sciences

- ✓ 616.36 Diseases of biliary tract
- ✓ .362 Diseases of liver
- .362 3 Hepatitis
- .362 4 Cirrhosis
- .362 5 Hepatitic jaundice
- .365 Diseases of gall bladder and bile ducts  
Including gallstones
- ✓ .37 Diseases of pancreas  
*For diabetes mellitus, see 616.46*
- .38 Diseases of peritoneum  
Including diseases of omentum and mesentery
- ✓ .39 Nutritional and metabolic diseases [*formerly* \*616.46]  
Including deficiency diseases (avitaminoses)  
Class dyspepsia [*formerly* †616.39] in 616.332  
*For diseases of endocrine system, see 616.4*
- .392 Beriberi
- .393 Pellagra
- .394 Scurvy
- .395 Rickets [*formerly* †616.996]
- .396 Other deficiency diseases and states  
Including emaciation, fatty degeneration  
*For multiple deficiency states, see 616.399*
- .398 Obesity  
Including obesity of endocrine origin
- .399 Other nutritional and metabolic diseases  
Including gout [*formerly* †616.991], multiple deficiency states
- ✓ .4 <sup>*not to be used*</sup> Diseases of (blood-forming, lymphatic,) endocrine systems  
Class endocrinotherapy [*formerly* \*616.4] in 615.36
- ✓ .41 Diseases of blood-forming system  
Including diseases of spleen [*formerly* \*616.15], bone marrow  
*For anemias, see 616.15*



*Decimal Classification*

- 616.42 Diseases of lymphatic system [*formerly \*616.15*] ←  
Including Hodgkin's disease  
If preferred, class Hodgkin's disease in 616.994 46
- 

616.43-616.48 Endocrinology

*For ovarian dysfunctions, see 618.11; testicular dysfunctions, 616.68; obesity, 616.398*

- ✓.43 Diseases of thymus gland
- ✓.44 Diseases of thyroid and parathyroid glands
- .442 Goiter  
Including simple, nontoxic and toxic nodular goiter
- .443 Hyperthyroidism
- .444 Hypothyroidism  
Including myxedema, cretinism [*both formerly †616.997*]
- .445 Hyperparathyroidism and hypoparathyroidism  
Including parathyroid tetany
- ✓.45 Diseases of adrenal glands  
Including hyperadrenalism, hypoadrenalism, Addison's disease
- ✓.46 Diseases of pancreatic internal secretion  
Diseases of islands of Langerhans  
Including diabetes mellitus [*formerly †616.63*], hypoglycemia  
Class metabolic and nutritional diseases in 616.39 and its subdivisions, vitamin therapy in 615.854 [*all formerly \*616.46*]
- ✓.47 Diseases of pituitary glands  
Including acromegaly, gigantism, dwarfism, Simmonds' disease
- .48 Other glandular diseases  
Including hyperpinealism, polyglandular disorders
- ✓.49 Diseases of breast  
Including diseases of male mammary glands  
*For diseases of female breast, see 618.19*

Medical sciences

- ✓ 616.5 **Dermatology (Diseases of skin)**  
Diseases of integumentary system  
Including diseases of nails, hair  
*For skin surgery, see 617.477*
- .51 **Dermatitis**  
Class hives [*formerly* †616.51] in 616.97
- .512 **Rashes (Urticaria)**  
Including contact and chemical dermatitis, e.g., \*nettle rash  
*For allergies, see 616.97; eruptive fevers, 616.91*
- .52 **Eczema (Herpes)**
- .522 **Shingles (Herpes zoster)**
- .523 **Boils and carbuncles (Furuncles)**
- .524 **Impetigo**
- .526 **Psoriasis**
- .53 **Diseases of sebaceous glands**  
Including acne, blackheads, wens, seborrhea  
*For diseases of sweat glands, see 616.56*
- .54 **Skin hypertrophies, scalp diseases, related disorders**
- .544 **Skin hypertrophies**  
Including corns, callosities, warts (*verrucae*), kerotosis,  
ichthyosis, scleroderma, xeroderma
- .545 **Skin ulcerations**  
Including bedsores (*decubitus*)
- .546 **Diseases of scalp, hair and hair follicles**  
Including baldness (*alopecia*), hair whiteness (*leuco-  
trichia*), excessive hairiness (*hypertrichosis*)
- .547 **Diseases of the nails**
- .55 **Pigmentary changes**  
Including albinism, nevi, moles
- .56 **Diseases of sweat glands**  
Including heat rash, prickly heat, anhidrosis  
*For diseases of sebaceous glands, see 616.53*



Decimal Classification

- 616.57 Parasitic skin diseases  
Including ringworm, athlete's foot
- .58 Skin diseases due to physical agents  
Including chilblains, frostbite, chapping  
*For burns and scalds, see 617.11; heat rash, 616.56*
- ✓.6 Diseases of urogenital system  
Including comprehensive works on diseases of male and female reproductive systems  
*For gynecology, see 618.1*
- .61 Diseases of kidneys and ureters
- ✓.612 Bright's disease (Nephritis)
- .613 Pyelitis  
Including pyelocystitis, pyelonephritis
- ✓.62 Diseases of bladder and urethra  
*For diseases of male urethra, see 616.64*
- .622 Kidney stones (Urinary calculi)  
Including renal and vesical calculi
- .623 Cystitis
- .624 Urethritis
- ✓.63 Urinary manifestations  
Including enuresis  
Class diabetes mellitus [*formerly* †616.63] in 616.46  
*For enuresis as symptom of neurological disorder, see 616.849*
- .633 Pyuria
- .635 Uremia
- 
- 616.64–616.699 Diseases of male genital organs
- .64 Diseases of male urethra
- .65 Diseases of prostate
- .66 Diseases of penis  
Including phimosis
- .67 Diseases of scrotum
- ✓.68 Diseases of testicles and accessory organs

Medical sciences

- 616.69 Functional disorders of male genital organs
- .692 Impotence and sterility  
*For sterility in women, see 618.178*
- .693 Male climacteric disorders  
*For menopausal disorders, see 618.175*
- .699 Other functional disorders of male genital organs  
Including spermatorrhea
- ✓.7 Diseases of musculoskeletal system
- ✓.71 Diseases of bones  
*For diseases of spine, see 616.73; of bone marrow, 616.41; fractures, 617.15; rickets, 616.395; orthopedic surgery, 617.3, dentistry, 617.6*
- .712 Osteitis  
Including osteitis deformans, osteochondritis, periostitis
- .715 Osteomyelitis  
*For surgical treatment of osteomyelitis, see 617.471*
- ✓.72 Diseases of joints  
Including hypertropic and rheumatoid arthritis  
*For gout, see 616.399; muscular rheumatism, 616.742*
- ✓.73 Diseases of spine
- .74 Diseases of muscles
- .742 Muscular rheumatism [formerly †616.991]  
*For arthritis, see 616.72, rheumatic fever, 616.991, gout, 616.399*
- .743 Myositis
- .744 Myasthenia gravis
- .748 Progressive muscular dystrophy
- .749 Other muscular atrophies
- .75 Diseases of tendons and fasciae
- .76 Diseases of bursae and sheaths of tendons  
Including bursitis, synovitis
- .77 Diseases of connective tissue (Collagen diseases)



Decimal Classification

616.8

Diseases of nervous system

Including organic and functional diseases

SUMMARY

616.81	Cerebral vascular diseases
.82	Meningeal diseases
.83	Other organic diseases of central nervous system
.84	Symptoms of neurological diseases
.85-.86	Psychoneuroses
.87	Diseases of cranial and spinal nerves
.88	Diseases of autonomic system
.89	Psychiatry

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616.81-616.838 Organic diseases of central nervous system

*For diseases of cranial and spinal nerves, see 616.87; of autonomic nervous system, 616.88; symptoms of neurological diseases, 616.84*

.81

Cerebral vascular diseases

Cerebral hemorrhages, aneurysms, embolisms, thromboses

Including apoplexy

*For psychoses with cerebral arteriosclerosis, see 616.898 3; arterial embolisms and thromboses, 616.135; venous embolisms and thromboses, 616.145*

.82

Meningeal diseases

.83

Other organic diseases of central nervous system

*For cerebral vascular diseases, see 616.81; meningeal diseases, 616.82; chorea, 616.851; epilepsy, 616.853; senile dementia, 616.898 3, alcoholism, 616.861; drug addiction, 616.863*

.832

Encephalitis

.833

Parkinson's disease (Paralysis agitans)

.834

Multiple sclerosis

.835

Poliomyelitis

.836

Cerebral palsy

.837

Paraplegia

.838

Locomotor ataxia (Tabes dorsalis)

*Medical sciences*

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- 616.84      Symptoms of neurological diseases  
              Including symptoms of functional diseases  
              *For cutaneous sensory disorders, see 616.856; diagnosis of  
              diseases of nervous system, 616.807 5*
- .841          Dizziness (Vertigo)  
              Including essential vertigo, blurred vision
- .842          Paralysis  
              Including Landry's paralysis  
              *For Parkinson's disease, see 616.833; paresthesia, 616.856*
- .843          Chronic fatigue and depression (Asthenic reactions)  
              Including "neurasthenia"
- .844          Spinal irritation
- ✓.845        Convulsions
- ✓.849        Other symptoms of neurological diseases  
              Including enuresis, pain, coma, reflex and sleep disturbances  
              *For headaches, see 616.072*
- .85          Psychoneuroses  
              *For psychoses, see 616.89*
- .851          Chorea
- .852          Hysteria  
              Loss or lowering of function  
              *For speech disorders, see 616 855*
- .852 1        War neuroses  
              Including shell shock, combat fatigue
- .852 2        Obsessive-compulsive neuroses  
              Including phobias, anxiety neuroses
- .852 3        Dissociative reactions  
              Including amnesias, fugues, multiple personalities
- .853          Epilepsy
- [†.854]      Tetanus  
              Class in 616.931 8



Decimal Classification

- ✓616.855 Speech and language disorders  
*For education of speech defectives, see 371.927*
- ✓.855 2 Neurological language disorders (Aphasias)  
Diminution or loss of faculty of language in any of its forms due to cerebral lesions  
Including agraphia, agnosia, apraxia
- .855 4 Psychoneurotic speech disorders  
Including stammering, stuttering
- .856 Cutaneous sensory disorders  
Including anesthesia, paresthesia, hypesthesia, hyperesthesia
- .857 Migraine
- .858 Psychopathic and immature personalities
- .86 Psychoneuroses due to noxious agents  
Class stimulants and narcotics in relation to health [*formerly \*616.86*] in 613.8
- .861 Dipsomania (Alcoholism) [*formerly †616.893, †616.898 1*]  
Including pathological intoxication, delirium tremens, Korsakow's psychosis, alcoholic hallucinosis, alcoholic polyneuritis  
*For psychological aspects of alcoholism, see 132.72*
- .862 Metallic intoxication  
Including neuritis, encephalopathy, myelopathy due to poisoning from lead, manganese, arsenic, thallium, barium and other metallic preparations
- ✓.863 Drug addictions  
Including addictions to opiates, cocaine, marijuana, barbiturates, similar habit-forming drugs  
*For psychological aspects of drug addiction, see 132.73*
- .87 Diseases of cranial and spinal nerves  
Neuritis and neuralgias  
Including polyneuritis, sciatica, neuritis of peripheral nerves, trigeminal and glossopharyngeal neuralgias  
*For herpes zoster, see 616.522*
- .88 Diseases of autonomic system  
Including diseases of sympathetic and parasympathetic nervous systems



Medical sciences

✓616.89

Psychiatry

Functional diseases (psychoses) of nervous system

*For psychoneuroses, see 616.85-616.86; psychological aspects of psychoses, 132.19; puerperal psychoses, 618.76*

.891

Psychiatric therapies

Methods of treating mental illness

*For psychosurgery, see 617.481; mental therapies, 615.851; psychoanalysis, 131.34; therapeutic counseling, 131.322; music therapy, 615.837; hypnotism, 134*

.891 2

Shock therapy

Use of metrazol, electricity, insulin and similar agents in treating psychoses

.891 3

Physical therapy

Treatment of psychoses by physical means, e.g., hydrotherapy

*For use of electricity in shock therapy, see 616.891 2*

.891 5

Group therapy

Including psychodrama

✓.891 6

Bibliotherapy

Including educational therapy

.891 8

Chemotherapy

Use of rauwolfia, paraldehyde, chlorpromazine and similar medication in treating psychoses

*For use of metrazol and insulin in shock therapy, see 616.891 2*

.892

General paresis (Neurosyphilis)

[†.893]

Alcoholism

Class in 616.861

.895

Manic-depressive psychoses

Including neurotic-depressive reactions, manic and circular types

.895 7

Involutional psychoses

.897

Paranoia and paranoid conditions

.898

Schizophrenia and senile dementias

[†.898 1]

Alcoholism

Class in 616.861



Decimal Classification

- 616.898 2 Schizophrenia (Dementia praecox)  
.898 3 Senile dementias  
Including psychoses with cerebral arteriosclerosis  
*For cerebral vascular diseases, see 616.81*

✓.9 Communicable and other diseases

- Including fevers, infectious diseases  
*For communicable diseases affecting a specific part of the body, see diseases of the part, e.g., mumps 616.313*

SUMMARY

- 616.91 Eruptive fevers (Exanthemata)  
.92 Bacterial, viral and rickettsial diseases  
.93 Bacillary intoxications, enteric and protozoan infections  
.94 Symptoms of toxemia  
.942 Erysipelas  
.95 Venereal and zoonous diseases  
.96 Parasitic diseases (Medical parasitology)  
.97 Allergies and anaphylaxis  
.98 Diseases due to physical and climatic conditions  
.99 Other diseases
- .91 Eruptive fevers (Exanthemata)  
*For dengue fever, see 616.921; typhus, 616.922 2; typhoid fever, 616.927 2; cerebrospinal meningitis, 616.82; glanders, 616.954; erysipelas, 616.942; diseases of skin, 616.5*
- .912 Smallpox (Variola major)
- .913 Attenuated forms of smallpox  
Including human vaccinia ("cowpox"), parasmallpox (alastrim, amaas), Cuban itch, Kaffir milkpox
- .914 Chickenpox (Varicella)
- .915 Measles (Rubeola)
- .916 German measles (Rubella)
- .917 Scarlet fever (Scarlatina)
- ✓.92 Bacterial, viral and rickettsial diseases
- .921 Dengue fever

Medical sciences

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- 616.922 Rickettsial infections
- .922 2 Typhus group  
Including classic epidemic (louse-borne) typhus, murine (flea-borne) typhus, Brill's disease
- .922 3 Spotted-fever group  
Including Rocky Mountain spotted fever; boutonneuse fever; tick bite fevers of South Africa, India, Russia; rickettsialpox  
*For tick-borne viral infections, see 616.924*
- .922 4 Scrub typhus (Tsutsugamushi disease)  
Japanese river fever
- .922 5 Q fever
- .922 6 Other rickettsial infections  
Including trench fever, Bullis fever, North Queensland tick typhus
- .923 Pasteurella infections
- .923 2 Plague  
Including bubonic plague
- .923 9 Tularemia
- .924 Tick-borne viral infections  
*For rickettsial infections, see 616.922; tularemia, 616.923 9; lymphocytic choriomeningitis, 616.925*
- .924 2 Tick fever (Colorado tick fever)  
American mountain fever, nonexanthematous tick fever
- .924 4 Relapsing fevers  
Including bacterial and spirochetal relapsing fevers
- .925 Lymphocytic choriomeningitis
- .927 Eberthella and salmonella infections
- .927 2 Typhoid fever
- .927 4 Paratyphoid fever
- .927 9 Other salmonella infections  
Including salmonella fever, salmonella gastroenteritis
- .928 Yellow fever



*Decimal Classification*

- 616.93 Bacillary intoxications, enteric and protozoan
- .931 Bacillary intoxications
- .931 3 Diphtheria
- .931 5 Botulism
- .931 8 Lockjaw (Tetanus) [*formerly* †616.854, †617.27]
- .932 Enteric infections
- For typhoid fever, see 616.927 2*
- .932 2 Asian cholera
- Pestilential cholera
- .933 European cholera
- Sporadic cholera
- Including cholera morbus
- [†.934] Cholera infantum
- Class in 618.929 34
- .935 Dysenteries
- .935 3 Amoebic dysentery (Amoebiasis)
- .935 5 Bacillary dysentery (Shigella infections)
- .936 Protozoan infections
- For amoebic dysentery, see 616.935 3*
- .936 2 Malarial fevers
- Including blackwater fever
- .936 3 Trypanosomiasis
- Including Gambian and Rhodesian trypanosomiasis,  
Chagas' disease, African sleeping sickness
- .936 4 Leishmaniasis
- Including visceral leishmaniasis (kala-azar), cutaneous  
leishmaniasis (oriental sores), mucocutaneous leishmani-  
asis (forest yaws)
- .94 Symptoms of toxemia
- Including septicemia, pyemia, phagedena
- .942 Erysipelas
- .95 Venereal and zoonogenic diseases
- For tetanus, see 616.931 8; tularemia, 616.923 9; parasitic  
diseases, 616.96*



## Decimal Classification

616.968

Diseases due to ectoparasites. (Medical en  
Comprehensive works)

*For a specific entomological disease, see the disease,  
e.g., Colorado tick fever 616.924 2*

✓.969

Diseases due to fungi (Medical mycology)

*For ringworm, athlete's foot, see 616.57*

✓.97

Allergies and anaphylaxis

Including hives [formerly †616.51], urticaria, congestion of  
nasopharyngeal areas

Class immunology in 615.37, hay fever in 616.202 [both  
formerly \*616.97]

.973

Contact allergies

.975

Food and drug allergies

.977

Physical allergies

Supersensitivity to physical agents, e.g., heat, sunlight, cold,  
humidity

.98

Diseases due to physical and climatic conditions

*For accidental wounds and injuries, see 617.1*

.980 2

Medical aspects of specialized services

.980 21

Aviation medicine [formerly †629.132 56]

*For motion sickness, see 616.989.2; altitude sickness,  
616.989 3; otitis media, 617.84*

.980 22

Submarine medicine

*For caisson disease, see 616.989 4; drowning, 617.18*

.980 23

Military medicine [formerly \*356.92]

*For treatment of a specific disease, see the disease,  
e.g., war neuroses 616.852 1; military medical services,  
355.345*

.980 24

Naval medicine

*For treatment of a specific disease, see the disease,  
e.g., seasickness 616.989 2*

✓.988

Medical climatology [formerly †614.42] and  
meteorology

Divide like 631.091, e.g., tropical medicine 616.988 3

*For medical geography, see 614.42*



Medical sciences

- ✓ 616.989 Diseases due to physical conditions, *Radiation*
- .989 2 Motion<sup>s</sup>sickness  
Including airsickness, seasickness, car sickness
- .989 3 Altitude sickness  
Including anoxemia, mountain sickness, alpine sickness
- .989 4 Caisson disease  
Including diver's palsy, decompression disease
- .99 Other diseases
- .991 Rheumatic fever  
Class muscular rheumatism in 616.742, gout in 616.399  
[both formerly †616.991]  
*For arthritis, see 616.72*
- ✓ 992 Neoplasms and neoplastic diseases
- .993 Benign neoplasms  
*For benign neoplasms of a specific system or organ, see the system or organ, e.g., warts 616.544; surgical treatment, surgery of the system or organ, e.g., surgical removal of skin tumors 617.477*
- ✓ .994 Malignant neoplasms  
Cancers, carcinomas, sarcomas  
Including surgery  
✓ Divide like 611, e.g., cancer of the stomach 616.994 33  
*For leukemia, see 616.15; Hodgkin's disease, 616.42*  
*07 for Hodgkin's*
- ✓ .995 Tuberculosis  
Divide like 611, e.g., tuberculosis of the bones 616.995 71; scrofula [formerly †616.996, \*616.2] 616.995 42  
*For pulmonary tuberculosis, see 616.246*
- [†.996] Scrofula, rickets  
Class scrofula in 616.995 42; rickets in 616.395
- [†.997] Myxedema, cretinism  
Class in 616.444
- .998 Leprosy (Hansen's disease)

Decimal Classification

617 **Surgery** (*Surgical Anatomy, Physiology,*  
Treatment of disease by manual and instrumental operations  
*For surgical gynecology, see 618.1; obstetrical surgery, 618.8;  
cancer surgery, 616.994*

SUMMARY

- 617.1 Accidental wounds and injuries
- .2 Results of injuries
- .3 Orthopedic surgery
- .4 Surgical operations by systems
- .5 Regional surgery
- .6 Dentistry
- .7 Ophthalmology
- .8 Otology
- .9 Techniques and other surgical specialities

✓.075

Surgical diagnosis, *clinical surgery*  
Including physical examination of surgical patients

.075 8

Surgical pathology  
Description of disorders requiring surgery

✓.1

Accidental wounds and injuries, *Emergency surgery*

*For first-aid treatment of wounds and injuries, see 614.88; military surgery, 617.99*

✓.11

Burns and scalds

*For electrical burns, see 617.12; radiation burns, 617.124*

.12

Injuries from electricity

Including electrical shock and burns, lightning stroke

.124

Injuries from radioactive substances

Including radiation burns

.13

Abrasions

Including bruises, contusions, crushing

.14

Lacerations and incisions

Including stabbing, cutting, puncture and infected wounds

.145

Gunshot wounds

.146

Removal of foreign bodies from wounds

✓.15

Fractures

Divide like 611.71, e.g., fracture of the femur 617.158

.16

Dislocations



Medical sciences

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- 617.17 Sprains and strains
- .18 Asphyxiation [*formerly also* †616.206]  
Choking, hanging, strangulation, suffocation, drowning  
Including artificial respiration
- .19 Blast injuries
- .2 Results of injuries  
Including infections, necrosis, fevers resulting from injuries
- ✓.21 Shock  
Including traumatic and surgical shock  
*For first aid in shock treatment, see* 614.88
- [†.27] Tetanus  
Class in 616.931 8
- ✓.3 Orthopedic surgery  
Correction of deformities, surgical treatment of chronic diseases of skeletal system  
*For fractures, see* 617.15; *surgery of motor and integumentary systems, 617.47*
- .307 8 Orthopedic appliances [*formerly* †617.92]
- [†.31] Congenital anomalies  
Class in 611.012
- [†.32] Harelip  
Class in 617.953 1
- [†.33-†.35] Coalescence of parts, extension of commissures, Siamese twins  
Class in 611.012
- [†.36] Supernumerary organs  
Class supernumerary fingers in 617.397; supernumerary toes in 617.398
- .37 Deformities  
Surgical<sup>2</sup> treatment of acquired and congenital deformities  
*For deformities caused by osteomyelitis, see* 617.471
- .371 Head and neck
- .374 Chest
- ✓.375 Spine

*Decimal Classification*

- 617.376 Hip and pelvis  
.39 Extremities  
*For amputations, see 617.57*  
.397 Upper extremities  
Including surgical removal of supernumerary fingers  
[formerly †617.36]  
.398 Lower extremities  
Including surgical removal of supernumerary toes [for-  
merly †617.36], orthopedic treatment of clubfeet, hallux  
valgus and varus, hammer toes  
*For chiropody, see 617.585*

.4 Surgical operations by systems

- ✓.41 Cardiovascular system  
✓.412 Heart  
✓.413 Arteries  
.414 Veins  
[†.42] Respiratory system  
Class in 617.54  
✓.43 Digestive system  
Comprehensive works only  
*For surgical treatment of a specific organ of the digestive  
tract, see the organ, e.g., surgery of stomach 617.553*  
.44 Endocrine glands  
Comprehensive works only  
*For surgical treatment of a specific gland, see region in  
which gland is located, e.g., thyroid gland 617.539 5*  
✓.46 Urogenital system  
Including comprehensive works on male and female systems  
*For surgical treatment of female genital tract, see 618.1*  
.461 Kidneys  
Including suprarenal glands, ureters  
✓.462 Bladder  
Including urethra  
✓.463 Male genital organs



Medical sciences

- 617.47 Motor and integumentary systems  
*For amputations, see 617.57*
- .471 Bones  
Including surgical treatment of deformities caused by osteomyelitis
- ✓.472 Joints  
Including surgical treatment of shoulder joint, elbow, wrist, hip joint, knee, ankle  
*For surgical treatment of jaws, see 617.522*
- .473 Muscles  
Including surgical treatment of deformities caused by poliomyelitis, cerebral palsy, muscular dystrophy
- .474 Tendons
- .475 Bursae
- ✓.477 Skin  
Including surgical removal of skin tumors  
*For plastic surgery, see 617.95*
- .48 Nervous system (Neurosurgery)
- .481 Brain  
Including psychosurgery, topectomy
- .482 Spinal cord
- .483 Nerves
- .5 Regional surgery
- ✓.51 Head and neck  
Comprehensive works only  
*For surgery of neck, see 617.539*
- .514 Skull  
Including trephining  
*For brain surgery, see 617.481; skull fractures, 617.154*
- .52 Face ①  
*For surgical treatment of eyes, see 617.7; of ears, 617.8; plastic surgery, 617.95*  
Oral surgery [formerly \*617.6]  
Including surgical treatment of lips, palate, jaws  
*For dental surgery, see 617.64*

Decimal Classification

- ✓ 17.523  
.53  
Nose  
Throat  
Including surgery of nose and throat  
*For surgery of nose, see 617.523*
- .532  
Pharynx and tonsils  
Including adenoidectomies
- ✓ .533  
.539  
Larynx, vocal cords, epiglottis, trachea  
Neck
- .539 5  
Thyroid and parathyroid glands
- ✓ .54  
Thorax  
Including surgery of respiratory system [*formerly †617.42*],  
thoracic cavity  
*For surgery of heart, see 617.412; of nose, 617.523; of throat,  
617.53<sup>n</sup>*
- .542  
Lungs
- .543  
Pleura
- .544  
Bronchi
- ✓ .545  
.546  
Mediastinum  
Thymus gland
- ✓ .548  
.549  
Esophagus  
Thoracic surface  
Including surgery of male breast; comprehensive works on  
surgery of breast  
*For diseases of female breast, see 618.19; cancer of  
breast, 616.994 49*
- ✓ .55  
Abdominal and pelvic [*formerly †617.56*] cavities  
*For surgical treatment of bladder, see 617.462; of male genital  
organs, 617.463; of female genital organs, 618.1*
- .551  
Spleen
- ✓ .553  
.554  
Stomach  
Intestines
- ✓ .554 1  
.554 5  
Small intestines  
Including duodenum, jejunum, ileum  
Cecum and vermiform appendix



Medical sciences

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- ✓ 617.554 7 Large intestines
- ✓ .554 8 Colon
- ✓ .555 Rectum and anus
- ✓ .556 Biliary system  
Including surgery of liver, gall bladder (gallstones), bile ducts
- ✓ .557 Pancreas
- .558 Peritoneum  
Including mesentery, omentum, pleuroperitoneal cavity
- .559 Abdominal hernias [*formerly* †616.34]
- [†.56] Pelvic cavity  
Class in 617.55
- .57 Extremities  
Including amputation [*formerly* †617.94], excisions, artificial limbs  
*For correction of deformities of extremities, see 617.39; fractures, 617.15*
- .577 Upper extremities
- ✓ .58 Lower extremities
- .585 Podiatry  
Including care of feet, fitting corrective shoes
- ✓ .6 Dentistry  
Including general dental practice  
Class oral surgery [*formerly* \*617.6] in 617.522
- ✓ .601 Oral hygiene and preventive dentistry  
Including theories
- .601 8 Dental asepsis and antiseptics
- .606 95 Dental technicians
- [†.61-†.62] Diseases of dental pulp, dentine, cementum  
Class in 617.634

Decimal Classification

✓ 617.63

Dental diseases

Diseases of teeth and supporting structure and their medicinal treatment

*For dental surgery, see 617.64*

✓ .632

Periodontics

Diseases of gums, tooth sockets

Including alveolar abscesses, pyorrhea, gingivitis, periodontitis

.634

Diseases of tooth tissues

Diseases of dental pulp [*formerly* †617.61], dentine, cementum [*both formerly* †617.62], enamel

Including dental caries

*For preparation and treatment of cavities, see 617.67*

.64

Dental surgery

.643

Orthodontics

Disorders of occlusion, dentition, and their treatment

.645

Pedodontics

Comprehensive works on dental surgery for children

*For orthodontics, see 617.643*

.66

Exodontics

Extraction of teeth

.67

Cavities

Preparation and treatment

.675

Fillings and inlays

Including amalgam, metallic, cement, porcelain, plastic fillings and inlays

└ .69

Prosthetic dentistry

Artificial teeth

Including full and partial dentures, crowns, fixed and removable bridges

.695

Dental materials

Including dental metallurgy and ceramics, impressions, casts

*For materials used in fillings and inlays, see 617.675*



Medical sciences

- 617.7    **Ophthalmology**  
Diseases of eyes, refractive errors, and their treatment  
Class manufacture of spectacles in 681.411, of spectacle frames  
in 681.43 [*both formerly \*617.7*]
- .701    **Preventive ophthalmology**  
Hygiene of eyes and theories of sight preservation  
*For orthoptics, see 617.762 2*
- .71    **Ophthalmic pathology [*formerly also †612.845*] and  
surgery**  
Class diseases of conjunctiva [*formerly †617.71*] in 617.77  
*For pathology and surgery of a specific region of the eye,  
see the region, e.g., crystalline lens 617.742*
- .712    **Blindness**  
Including amaurosis, amblyopia, partial blindness
- .713    **Ophthalmic wounds and injuries**
- .719    **Diseases of cornea and sclera**  
Including corneal transplantation
- .719 074    **Eye banks**
- .72    **Diseases of uvea**  
Including diseases of iris, choroid, ciliary body
- .73    **Diseases of retina and optic nerve**  
Including detachment of retina, retinitis, choked disc,  
papillitis
- .74    **Diseases of eyeball**  
Including glaucoma, enucleation  
*For diseases of a specific part of the eyeball, see the  
part, e.g., cornea 617.719*
- .742    **Diseases of crystalline lens**  
Including cataracts
- .746    **Diseases of vitreous body**



## Decimal Classification

- 617.75 Optometry  
Including setting and adjusting spectacles [formerly †681.44]  
and mechanical work of opticians
- .755 Disorders of refraction and accommodation  
Correction of functional disorders [formerly also †152.15],  
e.g., myopia, hypermetropia, astigmatism, presbyopia
- .758 Aniseikonia
- .759 Color blindness
- .76 Diseases of ocular muscular and lacrimal mechanisms
- .762 Diseases of ocular neuromuscular mechanism  
Including strabismus, binocular imbalance, diplopia
- .762 2 Orthoptics
- .764 Diseases of lacrimal glands and ducts  
Including obstructions of lacrimonasal duct, dacryocystitis
- .77 Diseases of conjunctiva [formerly †617.71] and eyelids
- .772 Trachoma
- .773 Conjunctivitis other than trachoma
- .78 Diseases of orbit
- .79 Prosthetic ophthalmology
- ✓ .8 Otology  
Diseases of ears and their treatment, *medical & surgical*  
Including wounds, injuries  
Class ✓ otorhinolaryngology [formerly \*617.8] in 616.21  
*use this No*
- .81 Diseases of external ear  
*For diseases of tympanic membrane, see 617.85*
- .82 Auricle  
*For plastic surgery of ears, see 617.958 5*
- .83 Auditory canal  
Including treatment of impacted earwax
- .84 Diseases of middle ear  
Including otitis media
- .85 Tympanic membrane



Medical sciences

- 617.86 Eustachian tubes
- .87 Mastoid processes
- .88 Diseases of internal ear  
Diseases of cochlea, labyrinth, semicircular canals, vestibule  
Including otosclerosis, fenestration operations
- .89 Deafness  
Including pathology [formerly also †612.858 77], deaf-mutism,  
hard of hearing  
For training of deaf, see 371.912; service to deaf, 362.42
- .890 78 Hearing aids
- .9 Techniques and other surgical specialties
- ✓ .91 Operative surgery, *Cancer, ...*  
Including techniques of making incisions, tying knots, suturing  
For anesthesiology, see 617.96; surgical dressings, 617.93
- ✓ .910 1 Asepsis and antisepsis in surgery
- .917 Operating room equipment  
Including preparation of operating room
- ✓ .917 8 Surgical instruments and apparatus  
Including setons, issues, sutures [all formerly †615.812],  
ligatures [formerly †615.813], needles, retractors, for-  
ceps, clamps
- ✓ .919 Preoperative and postoperative care
- [†.92] Orthopedic appliances  
Class in 617.307 8
- .93 Surgical dressings  
Including bandages [formerly †615.813], adhesive plasters  
and their application
- [†.94] Amputation  
Class in 617.57

*Decimal Classification*

617.95

Plastic surgery (Restorative surgery)

Including cosmetic surgery, tissue grafting

Divide like 611, e.g., otoplasty 617.958 5; harelip [f  
†617.32] 617.953 1

.950 74

Tissue banks

Including bone and organ banks

*For eye banks, see 617.719 074.*

✓.96

Anesthesiology

Methods and techniques of administering surgical anesthetics,  
management of anesthesia

Including preoperative sedation, operative risks of anesthesia,  
equipment and apparatus

*For anesthetics, see 615.781*

✓.962

General anesthesia

Including inhalation, rectal, intravenous anesthesia

✓.964

Regional anesthesia

Including spinal and caudal anesthesia

✓.966

Local anesthesia

✓.97

Geriatric surgery

Comprehensive works

*For surgery of a specific area, see the area, e.g., removal  
of cataracts 617.742*

✓.98

Pediatric surgery

Comprehensive works

*For surgery of a specific area, see the area, e.g., removal of  
tonsils 617.532*

.99

Military surgery

Comprehensive works

*For surgery of a specific area, see the area, e.g., brain  
surgery 617.481*

618

Gynecology, obstetrics, (other medical specialties)

Class physiology of pregnancy [formerly \*618] in 612.63

.1

Gynecology

Including surgical gynecology

*For cancer of genital tract, see 616.994 65*

✓.11

Diseases of ovaries



Medical sciences

- 618.12 Diseases of Fallopian tubes
- .13 Periuterine diseases
- .14 Diseases of uterus and cervix  
*For leucorrhea, see 618.173*
- .142 Infections  
Including cervicitis, endometritis, pyometra
- .143 Erosions
- .144 Malformations  
Including atrophies, hypertrophies, prolapse of uterus
- .145 Surgical therapeutics  
*For Caesarean section, see 618.86*
- ✓.145 3 Hysterectomies
- .145 8 Dilation and curettage
- ✓.15 Diseases of vagina
- ✓.16 Diseases of vulva  
Including diseases of Bartholin's glands, clitoris, hymen, labia  
majora and minora
- ✓.17 Functional and systemic disorders, *endocrine system*
- ✓.172 Menstruation disorders  
Including amenorrhea, menorrhagia, dysmenorrhea,  
oligomenorrhea
- .173 Leucorrhea
- .175 Menopause disorders
- .178 Female sterility  
Including comprehensive works on sterility  
*For male sterility, see 616.692*
- ✓.19 Diseases of female breast  
*For cancer of breast, see 616.994 49; diseases of lactation,  
618.71*
- ✓.2 Obstetrics
- [†.21] Physiology of pregnancy  
Class in 612.63
- .22 Examination and diagnosis  
Including signs and symptoms of pregnancy, diagnostic tests



## Decimal Classification

- ✓ 618.24 Prenatal care & post-natal care  
Including hygiene and management of pregnancy
- .25 Multiple pregnancy
- ✓ .3 Diseases of pregnancy & with pregnancy  
Including toxemias, L. . . . .
- .31 Extrauterine pregnancy (Ectopic pregnancy)  
Including tubal, ovarian, cervical, abdominal pregnancies
- ✓ .32 Fetal abnormalities  
Including molar pregnancy (degeneration of fetus)  
[formerly †618.39], lithopedion (calcified fetus)
- ✓ .33 Fetal deaths and stillbirths [formerly †618.39]  
Including retention of fetus, *Comprehensive works on a tortion*  
*For spontaneous abortion, see 618.39*
- ✓ .39 Miscarriage (Spontaneous abortion)  
Class molar pregnancy in †618.32, stillbirths in 618.33  
[both formerly †618.39]  
*For therapeutic abortion, see 618.88*
- ✓ .4 Normal labor (Parturition)  
Mechanism and management of normal labor and childbirth  
Including natural childbirth  
Class physiology of parturition [formerly †618.4] in 612.63
- .42 Presentations  
Position of fetal body during labor  
Including longitudinal and transverse presentations
- ✓ .45 Anesthesia and analgesia in obstetrics  
Including induced amnesia, twilight sleep  
*For anesthesia and analgesia in obstetrical surgery, see 618.895*
- ✓ .5 Complicated labor (Dystocia)
- .51 Maternal dystocia  
Difficult labor due to anomalies of expellant forces, mechanical obstructions [formerly †618.52], e.g., narrow pelvis, rigid cervix
- [†.52] Mechanical obstructions  
Class in 618.51



*Medical sciences*

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- 618.53 Fetal dystocia
  - Difficult labor due to size of fetus
  - For placental dystocia, see 618.56*
  
- ✓.54 Uterine hemorrhage
  - For postpartum hemorrhage, see 618.77*
  
- .56 Placental dystocia
  - Including placenta previa
  
- .58 Complications from umbilical cord
  - Including prolapse of cord
  
- .6 Normal puerperium
  - Postpartum management and care
  - For care of newborn infants, see 618.920 1*
  
- .7 Puerperal diseases
  
- .71 Diseases of lactation
  - Including pathology [*formerly also †612.664 6*], stagnation mastitis, galactedema
  
- .72 Puerperal infections
- .73 Puerperal metritis and peritonitis
- .74 Puerperal septicemia and pyemia
  
- .75 Puerperal eclampsia
  
- .76 Puerperal psychoses
  
- .77 Hemic disorders
  - Including postpartum hemorrhage, phlebitis, thrombosis
  - For hemorrhage during labor, see 618.54*
  
- .78 Other puerperal disorders
  
- ✓.79 Maternal death
  
- ✓.8 Obstetrical operations (Obstetrical surgery)
  
- .81 Applications of lever and forceps
  - For use of instruments in a specific operation, see the subject, e.g., use of obstetrical forceps in extraction 618.82*

Decimal Classification

618.82

Version and extraction

Including dilation of cervix [formerly †618.84], use of obstetrical forceps in extraction and dystocia

.83

Embryotomy and craniotomy

Mutilation of fetus to facilitate delivery when impossible by natural means

For therapeutic abortion, see 618.88

[†.84]

Dilation of cervix

Class in 618.82.

.85

Minor surgery

Including symphyseotomy, vaginoperineotomy, repair of lacerations of genital tract

.86

Caesarean section

.87

Surgical removal of placenta

✓.88

Therapeutic abortion

Including induction of labor, removal of fetus

For embryotomy, see 618.83

.89

Surgical aids in obstetrics

.892

Asepsis and antisepsis

.895

Anesthesia and analgesia

For anesthesia and analgesia during labor and childbirth, see 618.45

.9

Other medical specialties *Not to be used in this*

✓.92

Pediatrics

Diseases of children and their treatment

For pediatric surgery, see 617.98; orthopedic surgery, 617.3; pedodontics, 617.645; pediatric therapeutics, 615.542; home care and management of children, 649.1; child psychology, 136.7; child welfare, 362.7; child development, 612.65

✓.920 1

Newborn infants

Care and treatment

For treatment of specific diseases, see 618.921-618.929

✓.920 11

Premature infants

Including full-term infants weighing less than 5½ pounds



Medical sciences

618.921-.929 98 Specific diseases of children

Divide like 616.1-616.998, e.g., cardiac diseases in children  
- 618.921 2

.929 34

Cholera infantum [formerly †616.934]

Noncontagious diarrhea of young children prevailing during summer months

Geriatrics

Diseases of the aged and their treatment

Class gerontology [formerly \*618.97] in 612.67

For geriatric surgery, see 617.97; geriatric therapeutics, 615.547; social gerontology, 301.435; old-age welfare, 362.6; psychology of the aging, 136.53

619

Comparative medicine

Study of diseases and their treatment in laboratory animals

Including experimental medicine [formerly †\*610.72] ←

For veterinary medicine, see 636.089 6

.5

Domestic fowl

.7

Dogs

.8

Cats

.9

Other mammals

.93

Rodents

Including laboratory rats, mice, rabbits, hamsters — see 636.9

.98

Primates

Including monkeys, apes